

Oil and Gas Drilling

EA No. 575-80

United States Department of the Interior  
Geological Survey  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

USUAL ENVIRONMENTAL ASSESSMENT

Date August 29, 1980

Operator ARCO Oil & Gas Co. Well No. Escalante #2  
Location 682' FSL, 2384' FWL Section 29 Township 32S Range 3E  
County Garfield State Utah Field/Unit Wildcat  
Lease No. U-38347 Permit No. \_\_\_\_\_

Prepared by: Glenn M. Doyle  
Environmental Scientist  
Grand Junction, Colorado

Joint Field Inspection Date: August 8, 1980

Field Inspection Participants, Titles, and Organizations:

<u>Glenn Doyle</u>	<u>U. S. Geological Survey</u>
<u>Millard Dumas</u>	<u>U. S. Forest Service</u>
<u>Lincoln Lyman</u>	<u>Dirt Contractor</u>
<u>Jack McCarthy</u>	<u>Operator</u>
_____	_____
_____	_____

Typing In: 8/29  
Out: 9/5

Related Environmental Documents:

USFS Natural Resources Input, Dixie National Forest.

*Admin Comp 2.  
Feb 120 x 150  
Feb 14 x 40  
1 mi x 10' upgrade with road  
2 3/10 ac  
→ Cont Page 1-4  
Arch clut & T&E with  
USFS*

## DESCRIPTION OF PROPOSED ACTION

Proposed Action:

1. Location                      State:      Utah  
    County:    Garfield

682 ' F S L, 2384 ' F W L, SE  $\frac{1}{4}$  SW  $\frac{1}{4}$   
 Section 29, T32S, R3E, SLBM

2. Surface Ownership                      Location:              Public  
    Access Road:          Public

Status of Reclamation Agreements: Not Applicable

3. Dates                      APD Filed:                      July 14, 1980  
    APD Technically Complete:      July 24, 1980  
    APD Administratively Complete:      *July 14, 1980*

4. Project Time Frame                      Starting Date: September 1980  
    Duration of drilling activities: 21 days.

A period of 30 to 60 days is normally necessary to complete a well for production if hydrocarbons are discovered. If a dry hole is drilled, recontouring and reseeding would normally occur within one year; revegetation or restoration may take several years. If the well is a producer, an indefinite period of time would occur between completion and rehabilitation.

5. Related actions of other federal or state agencies and Indian tribes:

None known

6. Nearby pending actions which may affect or be affected by the proposed action:

None known

7. Status of variance requests:

None known

The following elements of the proposed action would/could result in environmental impacts:

1. A drill pad 120' wide x 180' long and a reserve pit 14' x 40' would be constructed on a previously constructed wellsite. Approximately one mile of existing road would be reconstructed to an average width of 18'. Culverts will be installed as specified by the Forest Service. Approximately 2.18 acres of disturbed surface would be associated with the project.

A workover rig will be used to drill out the existing cement plugs in the hole. ARCO plans to test for CO<sub>2</sub> gas.

2. Drilling to a depth of 3300'.

3. Waste disposal would be contained in a trash pit.
4. Traffic would be restricted to existing roads and the disturbed surface of the pad only.
5. Water requirements
6. Completion
7. Production

Details of the proposed action are described in the Application for Permit to Drill.

The access road would be designed as per USFS recommendations.

Environmental Considerations of the Proposed Action:

Regional Setting/Topography - The wellsite lies on an erosional slope at the base of cliffs which flank the Aquarius Plateau on the east. Regionally, steep topography surrounds the site, eventually grading into deeply-incised canyonlands-type relief.

PARAMETER

A. Geology - Surface is the Navajo Sandstone. Other formations are listed in the 10-Point Subsurface Plan.

Information Source: Application to Drill.

1. Other Local Mineral Resources to be Protected: None reported.

Information Source: ME, District Geologist.

2. Hazards:

a. Land Stability: Location and access built on Navajo Sandstone. Material is stable, provided the slopes are moderate and moisture content is low.

Information Source: Field observation.

b. Subsidence: Subsidence <sup>could</sup> occur with the withdrawal of oil, gas, and/or water.

Information Source: Keller, Edward A., 1976, Environmental geology, Charles E. Merrill, 488 pp.

c. Seismicity: Seismic risk: low. Statistically, greatest damage would be moderate, corresponding to intensity VII of Modified Mercalli Intensity Scale, 1931.

Information Source: Algermissen, S. T., and Perkins, David M., 1977, Earthquake hazards map of the United States, Reprint from Earthquake Information Bulletin, 9(1) Jan-Feb., 4 pp.;

Perkins, David M., 1974, Seismic risk maps, Reprint of Earthquake information bulletin, 6(6) Nov-Dec.; von Hake, Carl A., Earthquake History of Utah, NOAA.

- d. High Pressure Zones/Blowout Prevention: No high pressure zones expected. Blowout prevention systems detailed in APD.

Information Source: Application to Drill.

## B. Soils

1. Soil Character: Soils are of a sandy-loam texture, probably well-drained and slightly alkalic, and support the subalpine-alpine pine and aspen communities.

Information Source: Field observation.

2. Erosion/Sedimentation: Erosion/sedimentation would increase as would runoff potential. Extent of increases unpredictable without site-specific studies being done. Waterbarring of the roads, ditching of the sides, and the installation of culverts as per USFS specifications would minimize erosion and runoff.

Information Source: Field observation.

- C. Air Quality - Well site lies in Class II attainment area. No Class I attainment areas are near, or adjacent to, proposed location.

Information Source: State of Utah

- D. Noise Levels - Ambient noise levels will be temporarily increased over the duration of drilling activity. Wildlife will avoid immediate area. After well completion, if well is dry hole, noise levels will return to nearly the predrill ambient levels. If the well produces marketable quantities of oil or gas, noise levels will rise periodically above predrill ambient levels.

Information Source: Field observation.

## E. Water Resources

### 1. Hydrologic Character

- a. Surface Waters: No significant impacts to surface water systems are expected, provided the operator maintains all adverse substances either on the pad or in a fluid-tight reserve pit. Minor increases in sediment load, resulting in siltation/sedimentation, could occur in nearby intermittent drainages.

Information Source: Field observation.

- b. Groundwaters: The White Rim Sandstone, the Navajo, and the Wingate Formations may contain usable waters which should be sampled if encountered.

Information Source: ME, District Geologist.

## 2. Water Quality

- a. Surface Waters: Impacts to surface water quality are judged as insignificant, provided the operator maintains a fluid-tight reserve pit.

Information Source: Field observation.

- b. Groundwaters: Operator proposes 1076' of surface casing. Commingling of drilling fluids with potentially usable water could render groundwater unusable. Pits would be unlined.

Information Source: Application to Drill and Field observation.

## F. Flora and Fauna

### 1. Endangered and Threatened Species Determination

Based on the field comments received from the USFS on August 8, 1980, we determine that there would be no effect on endangered and threatened species and/or their critical habitat.

2. Flora: Construction would remove about 2.18 acres of vegetation increasing potential for non-point erosion and decreasing soil fertility.

Information Source: Field observation.

3. Fauna: Vegetation removal reduces wildlife habitats and food sources. Deer are not known to winter in the area. No known migratory bird nesting areas, strutting or breeding grounds, or fish-spawning areas would be impacted by proposed action.

Information Source: USFS

## G. Land Uses

1. General: Timber cutting, recreation and minor grazing are the major land uses. The amount and the quality of land available to livestock, wildlife, and recreationists would be reduced. Timber access would be improved.

Information Source: Field observation.

2. Affected Floodplains and/or Wetlands: N/A

Information Source: Field observation.

- H. Aesthetics: Operation would not blend with natural surroundings. Most likely unappealing to recreationists. Impact duration: life of well.

Information Source: Field observation.

I. Socioeconomics: The effect of one well on local and regional population and economy would be considered minor. If major discovery, then consider: Population increase, community services taxed, resources depleted, cumulative impacts multiply, pipelines and transportation routes expand.

Information Source: G. Doyle, Environmental Scientist, USGS.

J. Cultural Resources Determination: Based on the field comments received from the USFS on August 8, 1980, we determine that there would be no effect on cultural resources subject to no stipulations.

Information Source: U. S. Forest Service

K. Adequacy of Restoration Plans: Rehabilitation plan meets the minimum NTL-6 requirements and must meet further USFS requirements.

Information Source: G. Doyle, Environmental Scientist, USGS.

#### Alternatives to the Proposed Action:

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.

2. Approving the project with the recommended stipulations - Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated.

#### Adverse Environmental Effects:

1. If approved as proposed:

a. About 2.18 acres of vegetation would be removed, increasing and accelerating erosion potential.

b. Pollution of groundwater systems <sup>could</sup> occur with the introduction of drilling fluids into the aquifer(s). The potential for interaquifer leakage and lost circulation is ever-present, depending on the casing program.

c. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.

d. The potential for fires, leaks, spills of gas and oil or water exists.

e. During construction and drilling phases of the operation, noise and dust levels would increase.

f. Distractions from aesthetics during the lifetime of the project would exist.

g. Erosion from the site would eventually be carried as sediment in the Escalante River. The potential for pollution would exist through leaks and spills.

h. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of an irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.

i. Other: Wildlife and livestock could be endangered by toxic or hazardous fluids in the reserve pit if it is not properly fenced.

2. Conditional approval

a. All adverse impacts described in section one above would occur, except by fencing the reserve pit on three sides prior to drilling, and on the fourth side once the rig moves off, hazards posed by fluids to livestock and wildlife would be mitigated.

*T & E  
of Arch Clearance  
for the remaining  
from USFS*

Recommended Approval Conditions:

Drilling should be allowed, provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator:

1. See attached Lease Stipulations.
2. See attached <sup>USFS</sup>~~BLM~~ Stipulations.
3. Fence reserve pit on three sides prior to drilling, and on the fourth side once the rig moves off.
4. Sample any water shows from the Navajo, the Wingate, and the White Rim Formations.

Controversial Issues and Conservation Division Response: None at present.

We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

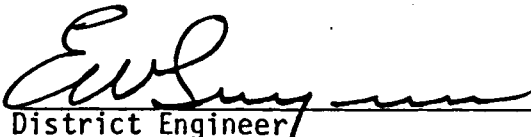
Determination

I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102(2)(C).

*T&E & Arch Clear forthcoming from USFS*

*Note 9/8/80*

*Rec'd 9/11/80*



District Engineer  
U. S. Geological Survey  
Conservation Division  
Oil & Gas Operations  
Salt Lake City District

*9/17/80*  
Date



*Also Oil & Gas*  
*Well # 2*  
*29-325-3E*

Serial No.

U- 38347  
Oil and Gas Lease

### SURFACE OCCUPANCY STIPULATION

1. Lessee agrees not to enter upon the lease area or disturb the surface for exploration or drilling purposes until either:

- (a) An inventory of archeological, paleontological, and historical sites is made by the surface management agency or its designated representative, or
- (b) Lessee has made or caused to be made an inventory of all archeological, paleontological, and historical sites in those areas of the lease subject to development, occupancy, or surface disturbance. The survey must be made by a qualified archeologist acceptable to the surface management agency and the results of this survey provided to the surface management agency. Costs of this survey will be borne by the lessee. After inventory by either lessee's archeologist or the surface management agency, reasonable conditions of use will be prepared to protect the sites or salvage objects of antiquity in accordance with the Antiquities Act of June 8, 1906 (34 Stat. 225; 16 USC 431), and the Historical Sites Act of August 21, 1935 (49 Stat. 666; 16 USC 461-467). Costs of salvage of artifacts will be borne by the lessee and all objects of antiquity salvaged will remain the property of the U. S. Government.

2. No occupancy of the surface in the following areas is authorized by this lease. The lessee may employ directional drilling to develop the oil and gas resources under these areas, provided that such drilling or other works will not disturb the surface area or otherwise interfere with their use by the surface management agency. The areas to be excluded from surface occupancy unless specifically approved in the operating plan are:

- (a) Within 500 feet on either side of the centerline of any and all roads and/or highways within the lease area.
- (b) Within 200 feet on either side of the centerline of any and all designated trails within the lease area.
- (c) Within 500 feet of the normal high waterline of any and all streams, lakes, ponds, and reservoir located within the lease area.
- (d) Within 400 feet of any and all springs within the lease area.
- (e) Within 400 feet of any improvements either owned, permitted, leased, or otherwise authorized by the surface management agency.

ATLANTIC REFINED OILS

AUG 7 REC

By: \_\_\_\_\_

Lessee

\_\_\_\_\_  
Attorney-in-Fact

*Glenn*

## Natural Resources Input

June 7, 1980

2820 Leases and Permits  
Arco-Escalante #2

## Affected Environment

The present environment of the proposed project is one of a rehabilitated project that is stable for the most part. The prior drilling project consisted of an access road and drill pad. There has been some environmental degradation from plugged culverts and water running off the pad which head cut the road. However, the pad and access road have generally been revegetated and stabilized.

## Effects of Implementation

Alternative "A" - No change

Same as "Affected Environment" section.

Alternative "B" - Allow access to existing pad location via the road up the Sand Creek drainage.

The vegetation and organic matter that has stabilized the existing facilities will be removed, thus setting plant succession back and rendering the site vulnerable to erosion. Wildlife sanctuary along this stream bottom will be interrupted for the project duration.

Improved drainage from project reconstruction will prevent some of the erosion that is now taking place.

Any time an area is opened up to a project and/or motor vehicle access, litter and foreign debris become an unsightly and sanitary problem.

## Issues and Concerns

1. Destruction of existing vegetation within the road that has rehabilitated the disturbed site.
2. The removal of trees that have rehabilitated the existing drill pad.
3. Debris and litter that could be brought in by opening the area up.
4. Stability of facilities following completion of project.

## Mitigating Requirements

1. The road will be bladed only where necessary to allow vehicles to travel safely; thus, leaving the existing vegetation and root crowns to rehabilitate the road. A draft hose will be used to transport water from the creek to the drill pad which will reduce vegetative damage due to excessive vehicular traffic.

2. The drill rig should be placed on the pad in a manner that will protect the larger ponderosa pine saplings that have inhabited the pad. Portable tanks will be used for water and mud storage to avoid excessive disturbance from pond construction.
3. All debris and litter brought into the area while the road is open will be the responsibility of ARCO.
4. Following completion of the drilling project the road and pad will be maintained, seeded, and closed to Forest Service standards.  
(Seed mixture: Crested wheat 5 lbs/ac, smooth brome 5 lbs/ac. and Russian wild rye 5 lbs/ac.)

  
MILLARD A. DUMAS III  
Supervisory Forester

### Affected Environment

The Arco-Escalante #2 drill site proposal is located approximately 1 1/2 miles up Sand Creek. The site was previously accessed and developed in the mid sixties when exploratory drilling was originally accomplished. An existing road extends from the Hells Backbone Road (F.S. #30153) to the existing pad location. The road has not been maintained for several years, but with the exception of several drainage problems, is in fair condition. The road traverses through a variety of soil types consisting mainly of sands and clays. Without surfacing, trafficability problems could be expected.

The Grimes Creek Timber Sale, which is scheduled to be sold in F.Y. 81, encompasses the area. The proposed road access to the pad location will be needed to harvest timber from the Sand Creek drainage when timber is harvested from the area.

Without the proposal the area will remain basically unchanged except for timber harvest activities. Washouts and plugged culverts would be corrected under the timber sale contract and erosion hazards would be lessened at that time.

### Effects of Implementation

Alternative "A" - No change.

Same as "Affected Environment" section.

Alternative "B" - Allow access to existing pad location via road up Sand Creek drainage.

Access to the existing pad site can be readily provided by placing additional culverts and dips at designated locations and doing minor reshape and finish work to the existing road. The road is approximately 14 feet wide, contains both outsloped and ditched sections, and varies gradewise between 0 and 10%. A thin shale type surfacing has been placed on select portions of the road and should be adequate for limited use.

The first live water crossing has washed out and will require the re-installation of a 24" culvert. The culvert existing at the washout appears to be in good condition and may be adequate for re-installation if it proved to be undamaged when its removed. The flow of the stream should be diverted back into its original channel and the roadbed reshaped to its original cross-section.

In two places, side drainages enter the roadway in through cut sections. The first of these areas should be dipped at the wash location, and ditched along the lower side of the road to the drainage just below the wash area.

Mr. Orlyn Terry  
2460 West 26th Avenue  
Suite 470-C  
Denver, Colorado 80211

RE: Filing NTL-6 and A.P.D. Form 9-331C  
Mid-Continent Oil & Gas Reserves, Inc.  
#2 Charger  
NW SW Sec. 33, T32S-R3E  
1851' FSL, 318' FWL  
Garfield County, Utah

Dear Mr. Terry:

This is to confirm our understanding with you that Orlyn Terry is authorized to act as our agent in the following capacities:

- A. In surveying, staking, and preparing and filing necessary applications, permits and compliance programs, including complete NTL-6 reports, for the above-referenced project.
- B. In accepting on our behalf any changes to location, proposed facilities and/or surface use plan and compliance program requested at on-site inspections, when we are unable to have a Company representative present. Such changes will then be binding upon us or designated Operator.

TERRY'S responsibilities do not include construction of location or supervision of drilling, completion or rehabilitation operations.

Mid-Continent Oil & Gas Reserves, Inc.  
Company

By: 

John D. Slawter, President

Date: Oct 18<sup>th</sup> - 1983

Mr. Orlyn Terry  
2460 West 26th Avenue  
Suite 470-C  
Denver, Colorado 80211

RE: Filing NTL-6 and A.P.D. Form 9-331C  
Mid-Continent Oil & Gas Reserves, Inc.  
#2 Charger  
NW SW Sec. 33, T32S-R3E  
1851' FSL, 318' FWL  
Garfield County, Utah

Dear Mr. Terry:

This is to confirm our understanding with you that Orlyn Terry is authorized to act as our agent in the following capacities:

- A. In surveying, staking, and preparing and filing necessary applications, permits and compliance programs, including complete NTL-6 reports, for the above-referenced project.
- B. In accepting on our behalf any changes to location, proposed facilities and/or surface use plan and compliance program requested at on-site inspections, when we are unable to have a Company representative present. Such changes will then be binding upon us or designated Operator.

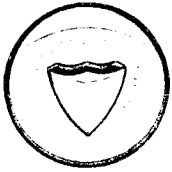
TERRY'S responsibilities do not include construction of location or supervision of drilling, completion or rehabilitation operations.

Mid-Continent Oil & Gas Reserves, Inc.  
Company

By: 

John D. Slawter, President

Date: Oct 18<sup>th</sup> 1982



ORLYN TERRY • GEOLOGIST • OIL & GAS PROPERTIES

DIAMOND HILL, SUITE 470-C, 2460 WEST 26TH AVENUE, DENVER, COLORADO 80211 (303) 573-8166

RECEIVED  
NOV 2 1983

DIVISION OF  
OIL, GAS & MINING

October 31, 1983

CERTIFIED #1117962  
Return Receipt Requested

Division of Oil, Gas & Mining  
State of Utah  
4241 State Office Building  
Salt Lake City, Utah 84114

Dear Sir:

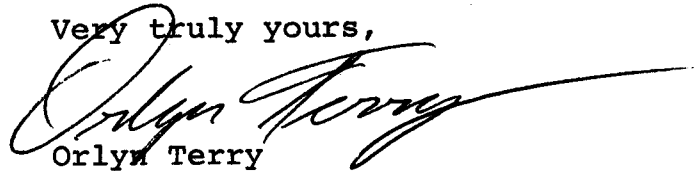
Re: APD #9-331C and NTL-6  
Mid-Continent Oil and Gas  
Reserves, Inc.  
#2 Charger  
NW SW Sec. 33, T32S-R3E  
1851' FSL, 318' FWL  
Garfield County, Utah

Enclosed please find three copies of the Application for Permit to Drill and the NTL-6 program for the above-referenced well location.

Copies have also been sent to Mr. Ed Guynn, Chief of Branch of Fluid Minerals for his approval.

An application for a water permit is in the process of being filed. When the approval is received by this office, a copy of same will be forwarded to you immediately.

Very truly yours,

  
Orlyn Terry

OT:cr

Enclosures

cc: Mid-Continent Oil & Gas Reserves, Inc.  
ARCO Exploration Company

EXHIBIT "D"

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Attached to Form 9-331C  
Mid-Continent Oil & Gas Reserves, Inc.  
#2 Charger  
NW SW Sec. 33, T32S-R3E  
1851' FSL, 318' FWL  
Garfield County, Utah

1. Existing Roads

- A. The proposed well site and elevation plat is shown as EXHIBIT "A". Staking included two directional reference stakes and elevations, also shown on EXHIBIT "A".
- B. The distance from Escalante, Utah is 33.8 miles. Begin in Escalante, Utah and proceed east on Utah State Highway #12, approximately 24 miles to Sand Creek Road. (Forest Service #153). Thence left 9.5 miles on gravel road known as Sand Creek Road. (The last 4+ miles are one-lane and dirt presently being upgraded for timber sale road). Thence right onto gravel road with culverts (previous access road to #1 Charger well drilled and shut in. New location is within 1.1 miles of old hole). Proceed .3 miles to existing pad, as shown on EXHIBITS "E" & "E<sub>1</sub>".
- C. All roads to location are color-coded on EXHIBITS "E" & "E<sub>1</sub>". No new access road will be required.
- D. This is an extension well. All existing roads within a three-mile radius are shown on EXHIBIT "E".
- E. N/A.
- F. The existing State Highway and Sand Creek Road need no improvement. Maintenance will be performed as required. The grade is 8% or less.

2. Planned Access Roads

Map showing all necessary access roads to be reconstructed is shown as EXHIBIT "E<sub>1</sub>" for the following:

A. Drilling Operations

- (1) The maximum width of the 1.4 miles of reconstructed access required for drilling will be 15 feet.



- (2) The grade will be 8% or less.
- (3) No turnouts are planned.
- (4) No drainage design is planned during drilling operations. Brush will be cleared. The existing gravel road needs blading to remove remaining snow. This road has existing water bars at regular intervals.
- (5) No culverts are needed.
- (6) No surfacing material will be required. The road is already graveled.
- (7) No gates, fence cuts, or cattleguards will be installed.
- (8) This road does cross U.S.F.S. lands, as shown on EXHIBIT "E".

B. Production

- (1) If production is obtained, reconstructed road will be graded and surfaced and drainage will be constructed. If accumulated material is not sufficient, additional materials will be provided by dirt contractor.

3. Location of Existing Wells

For all existing wells within a two-mile radius of Exploratory well, see EXHIBIT "F".

- (1) There are no water wells within a two-mile radius of this location.
- (2) There are two abandoned wells in this two-mile radius.
- (3) There are no temporarily abandoned wells.
- (4) There are no disposal wells.
- (5) There are no wells presently being drilled.
- (6) There are no producing wells within this two-mile radius.
- (7) There is one shut-in well, #1 Charger: SE SW Sec. 29, T32S-R3E.
- (8) There are no injection wells.
- (9) There are no monitoring or observation wells for other uses.

4. Location of Existing and/or Proposed Facilities

- A. Within a one-mile radius of location, the following existing facilities are owned or controlled by Mid-Continent Oil or other lessee/operator:
- (1) Tank Batteries: None.
  - (2) Production Facilities: None.
  - (3) Oil Gathering Lines: None.
  - (4) Gas Gathering Lines: None.
  - (5) Injection Lines: None.
  - (6) Disposal Lines: None.
- B. If production is obtained, new facilities will be as follows:
- (1) Production facilities will be located on solid ground of cut area of drill pad, as shown on EXHIBIT "G".
  - (2) All well flow lines will be buried and will be on the well site and battery site.
  - (3) Production facilities will be 245 feet long and 135 feet wide. Areas of drill pad not required for production facilities will be rehabilitated.
  - (4) All construction materials for battery site and pad will be obtained from site. No additional material from outside sources is anticipated.
  - (5) Any necessary pits will be fenced and flagged to protect livestock and wildlife.
- C. Rehabilitation, whether well is productive or dry, will be made on all unused areas in accordance with U.S.F.S. stipulations.

5. Location and Type of Water Source

- A. The source of water will be Sand Creek, located 120' west of the proposed location.

- B. Water exists in Sand Creek at the edge of the pad. Water permit will be obtained from the State of Utah, Natural Resources & Energy.
- C. No water well is to be drilled on this lease.

#### 6. Construction Materials

- A. No construction materials are needed for drilling well or constructing access roads into the location during drilling. The surface soil materials will be sufficient.
- B. No construction materials will be taken off Federal land.
- C. All surface soil materials for construction of access roads for drilling are sufficient. If well is productive, and material from road and pad is not sufficient, surfacing materials will be provided by Canyon Lands Contracting, Inc. of Grand Junction, Colorado.
- D. All major access roads presently exist as shown on EXHIBIT "E".

#### 7. Handling of Waste Materials and Disposal

- (1) Drill cuttings will be buried in the reserve pit.
- (2) Drilling fluids will be handled in the reserve pit.
- (3) Any fluids produced during drilling test or while making production test will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any spills of oil, gas, salt waters, or other noxious fluids will be cleaned up and removed. If well is productive, produced water will be disposed of on-site for 30 days only, or 90 days with permission of District Engineer. After that time application will be made for approval or permanent disposal method in compliance with NTL-2b.
- (4) Portable chemical facilities will be provided for human waste.
- (5) Garbage and non-flammable waste and salt and other chemicals produced during drilling or testing will be handled in trash cage. Drill fluids, water, drilling mud and tailings will be kept in reserve pit, as shown on EXHIBIT "H". The trash cage will be totally enclosed with small mesh wire to prevent wind scattering trash before being buried or removed. Reserve pit will be fenced on three sides during drilling and fourth side fenced upon removal of the rig.
- (6) After the rig moves out, all materials will be cleaned up and no

adverse materials will be left on location. All dangerous open pits will be fenced during drilling and kept closed until such time as the pit is leveled.

**8. Ancillary Facilities**

No air strip, camp or other facilities will be built during drilling of this well.

**9. Well Site Layout**

- (1) EXHIBIT "G" is the Drill Pad Layout as staked, with elevations, by Bulloch Bros., Cedar City, Utah. Cuts and fills have been drafted to visualize the planned cut across the location spot and to the deepest part of the pad. Topsoil is 8" deep and will be stockpiled, as shown on EXHIBIT "G".
- (2) EXHIBIT "H" is a plan diagram of the proposed rig and equipment, reserve pit, trash cage, pipe racks and mud tanks, access road, parking and turnaround. No permanent living facilities are planned. There will be a trailer on site.
- (3) EXHIBIT "G" is a diagram showing the proposed production facilities layout.
- (4) The reserve pits will not be lined.

**10. Plans for Restoration**

- (1) If well is abandoned, site will be restored to original condition as nearly as possible. Backfilling, leveling and contouring are planned as soon as all pits have dried. Waste disposal and spoils materials will be buried or hauled away to an approved sanitary landfill immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.
- (2) The soil banked material will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula provided by the U.S.F.S. Revegetation is recommended for road area, as well as around drill pad.
- (3) Three sides of the reserve pit will be fenced during drilling operations. Prior to rig release, the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from entering; and the fencing will be maintained until leveling and cleanup are accomplished.
- (4) If any oil is on the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substances will be

flagged overhead or covered with wire mesh.

- (5) The rehabilitation operations will begin immediately after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and revegetation is considered best in Spring, 1985, unless requested otherwise.

#### 11. Other Information

- (1) The location lies in the Canyon Lands section of the Colorado Plateau Province.

The west side of the pad is against a rock cliff with a small drainage to the south side of the pad. The pad basically lies in a bowl with high ridges to the east, north and west.

Soil is loam with rocks and boulders throughout.

The area is a ponderosa pine belt with manzanita bush. Deer, elk, coyotes, cougars, small rodents and birds inhabit the area.

- (2) The primary surface use is for forestry and recreation. The surface is owned by the U.S. Government. U.S.F.S. ownership of access roads is shown on EXHIBIT "E". There is no private ownership of access roads.

- (3) The closest live water is the Sand Creek, less than 120 feet west of the location, as shown on EXHIBIT "E".

The closest occupied dwelling is located in NE 1/4, Sec. 24, T33S, R3E 4 miles southeast of the proposed site, as shown on EXHIBIT "E".

There were no archaeological, historical, or other cultural artifacts apparent to Bulloch's surveyors during their staking of this location. An Unusual Environmental Assessment was prepared by the Department of the Interior on August 29, 1980 for the area immediately adjacent to the #1 Charger which was just completed. This should apply to the #2 Charger since it is only 1.1 miles south on an existing road from the #1 Charger. See EXHIBIT "I".

- (4) There are no reported restrictions or reservations noted on the oil and gas lease.
- (5) Drilling is planned for on or about June 1, 1984. It is anticipated that the casing point will be reached within 20 days after commencement of drilling.

12. Lessee's or Operator's Representative

Orlyn Terry  
Agent Consultant for  
Mid-Continent Oil & Gas Reserves, Inc.  
2460 West 26th Avenue  
Suite 470-C  
Denver, Colorado 80211  
Phone (303) 573-6166

John D. Slawter, President  
Mid-Continent Oil & Gas Reserves, Inc.  
12700 Park Central Place  
Suite 1404  
Dallas, Texas 75251  
Phone (214) 233-3380

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Mid-Continent Oil and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

10-28-83

Date

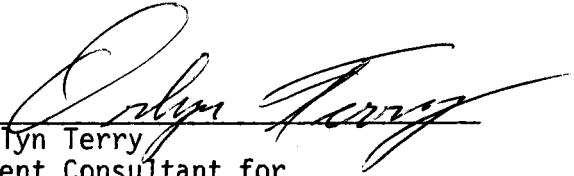
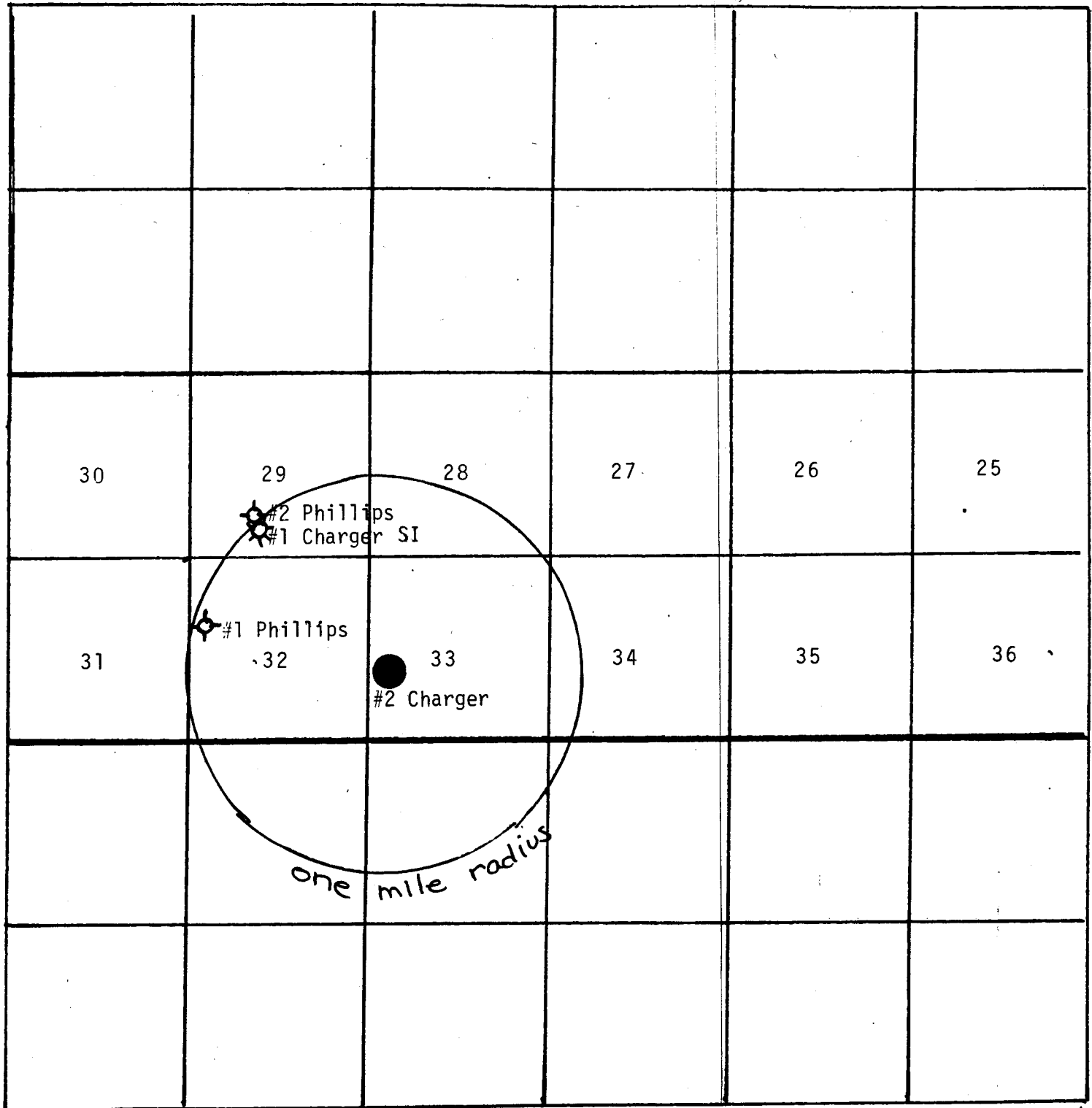
  
Orlyn Terry  
Agent Consultant for  
Mid-Continent Oil & Gas Reserves, Inc.

EXHIBIT "F"  
Radius Map of Area

R3E

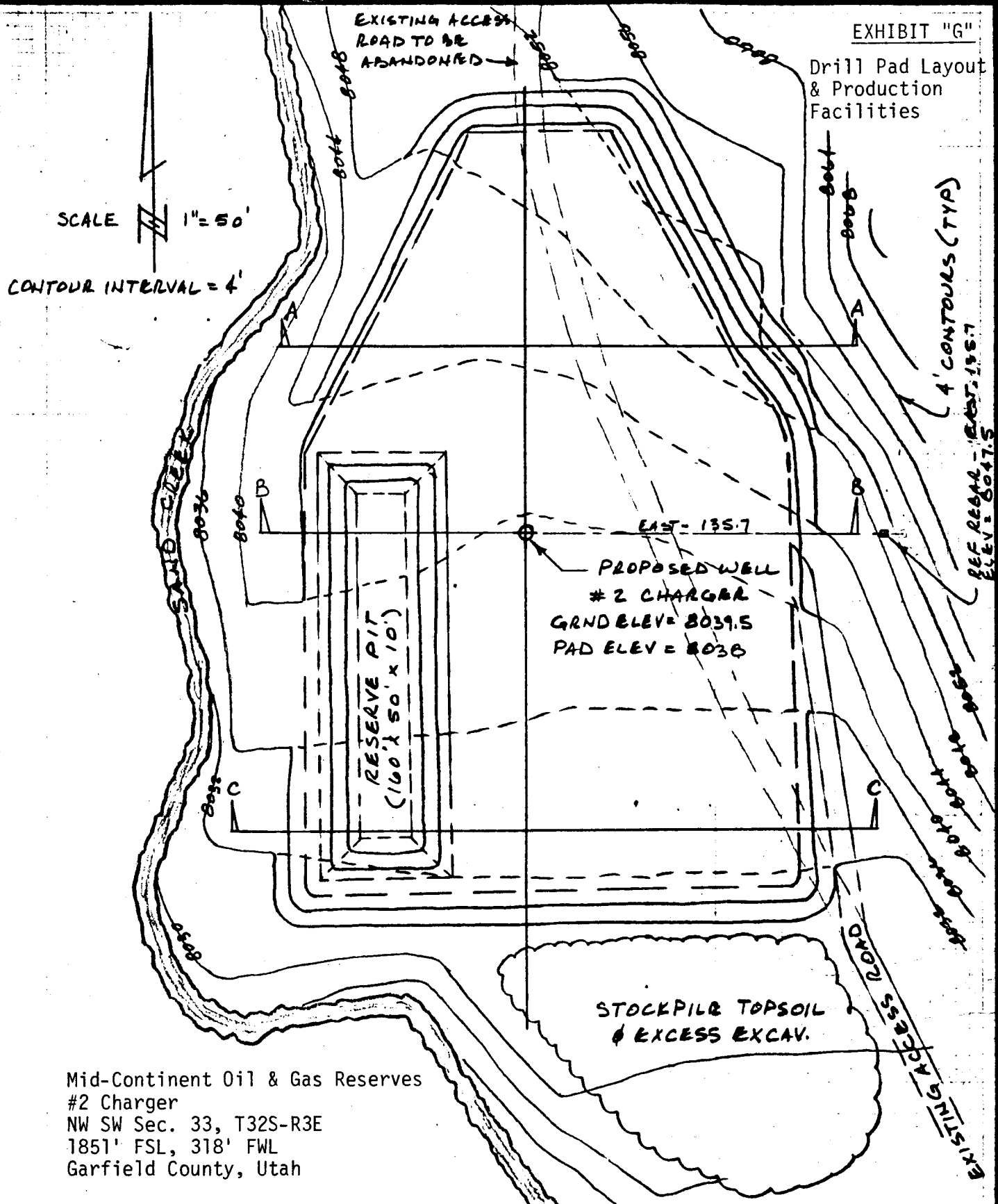


**LEGEND**

⊙ DRILLING

- |                       |                            |
|-----------------------|----------------------------|
| ○ LOCATION            | ★ OIL & GAS WELL           |
| ⊕ DRY HOLE            | ★ ABANDONED OIL & GAS WELL |
| ● OIL WELL            | ★ GAS WELL                 |
| ★ ABANDONED OIL WELL  | ★ ABANDONED GAS WELL       |
| △ TRIANGULATION POINT | ⊙ WATER WELL               |

Mid-Continent Oil & Gas Reserves Inc.  
#2 Charger  
NW SW Sec. 33, T32S-R3E  
1851' FSL, 318' FWL  
Garfield County, Utah



**BULLOCK BROS.  
ENGINEERING INC.**  
CEDAR CITY, UTAH

DRILL PAD PLAN  
FOR  
#2 CHARGER  
SEC 33, T32S, R3E, SLM

DATE 10/12/88  
SCALE 1" = 50'  
DRAWN N.L. RHODES



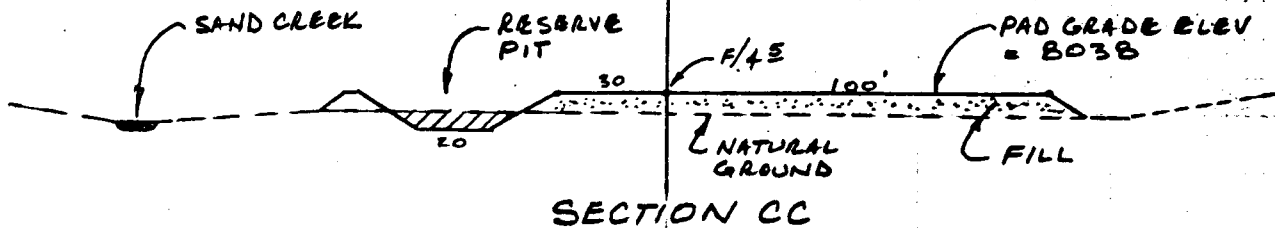
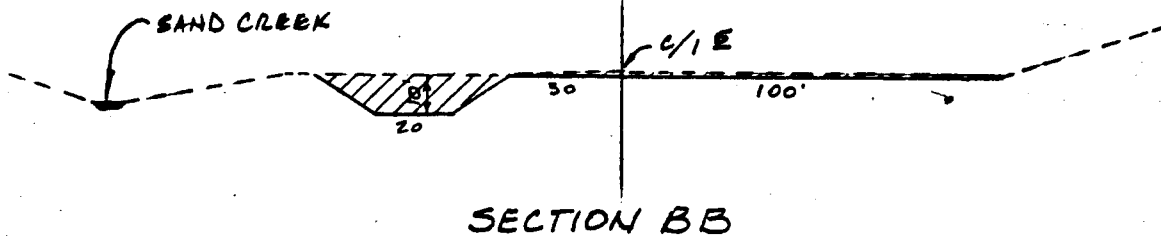
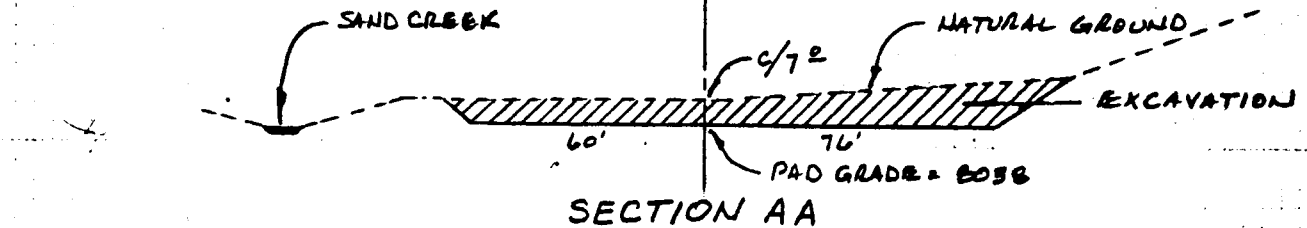
SCALE - 1" = 50' HORIZ.  
1" = 50' VERT.

----- EXISTING GROUND  
———— PROPOSED GRADE

CUT = 5800 CU YDS  
FILL = 1300 CU YDS.

EXHIBIT "G<sub>1</sub>"

Cut Fill Cross Sections



Mid-Continent Oil & Gas Reserves, Inc.  
#2 Charger  
NW SW Sec. 33, T32S-R3E  
1851' FSL, 318' FWL  
Garfield County, Utah

**BULLOCK BROS.  
ENGINEERING INC.**  
CEDAR CITY, UTAH

DRILL PAD SECTIONS  
FOR  
# 2 CHARGER  
SEC. 33, T32S, R3E, SLM

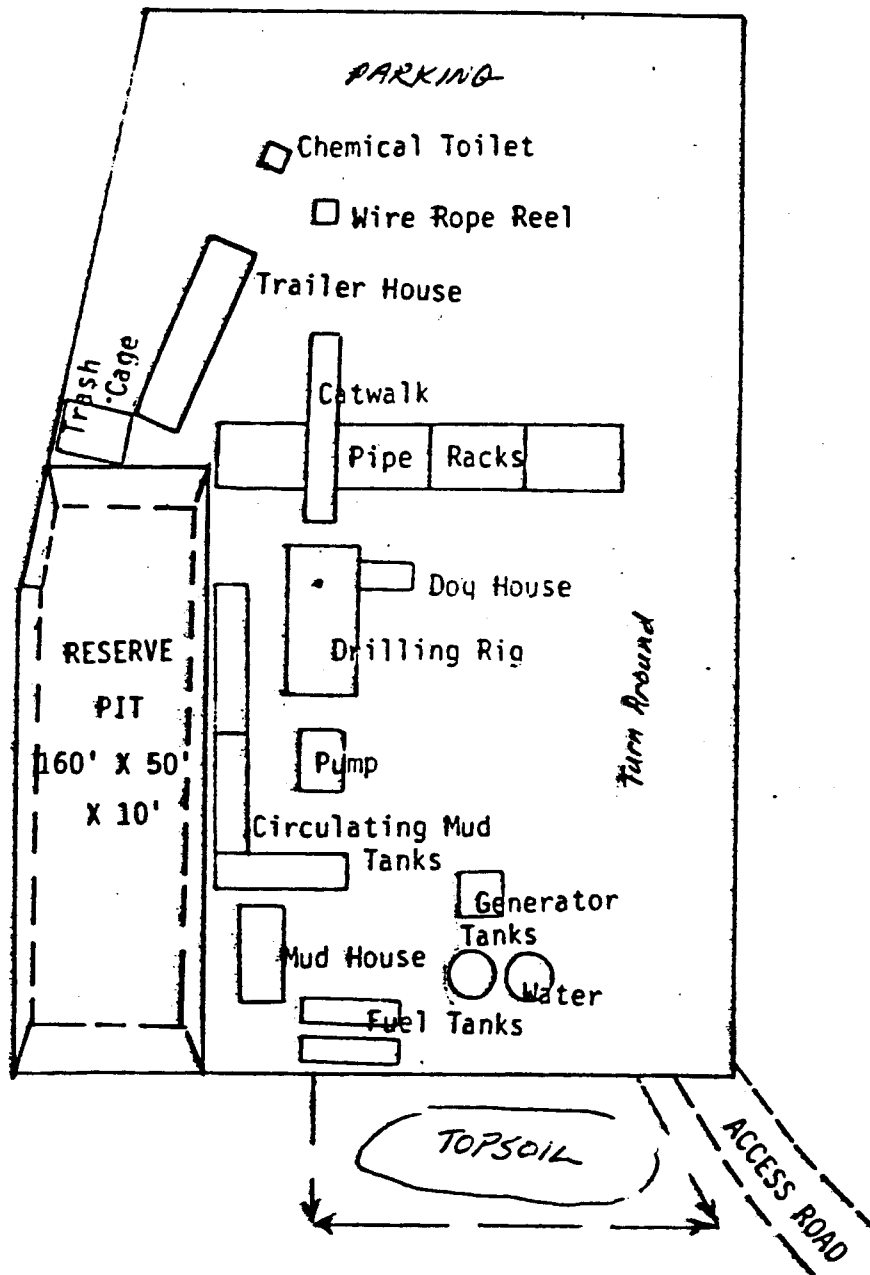
DATE 10/12/83  
SCALE 1" = 50' HORIZ/VERT  
DRAWN N.L. RHODES

Mid-Continent Oil & Gas Reserves, Inc.  
#2 Charger  
NW SW Sec. 33, T32S-R3E  
1851' FSL, 318' FWL  
Garfield County, Utah

EXHIBIT "H"

Drill Rig Layout

Scale 1" = 50'








# EXHIBIT "E" Access Roads to Location

## EXHIBIT "E" - Access Roads to Location

### LEGEND

- |  |  |
|--|--|
| 1. Location:<br>Mid-Continent Oil<br>#2 Charger<br>NW SW Sec.33,T32S-R3E<br>1851' FSL, 318' FWL<br>Garfield County, Utah | <u>Color Coding</u>  |
|  |  State Highway #12        |
|  |  Sand Creek Road (gravel) |
| 2. Water Source  |  U.S.F.S Lands            |
| 3. Nearest Town  |  |
| 4. Nearest Live Water  |  |
| 5. Closest Dwelling  |  |

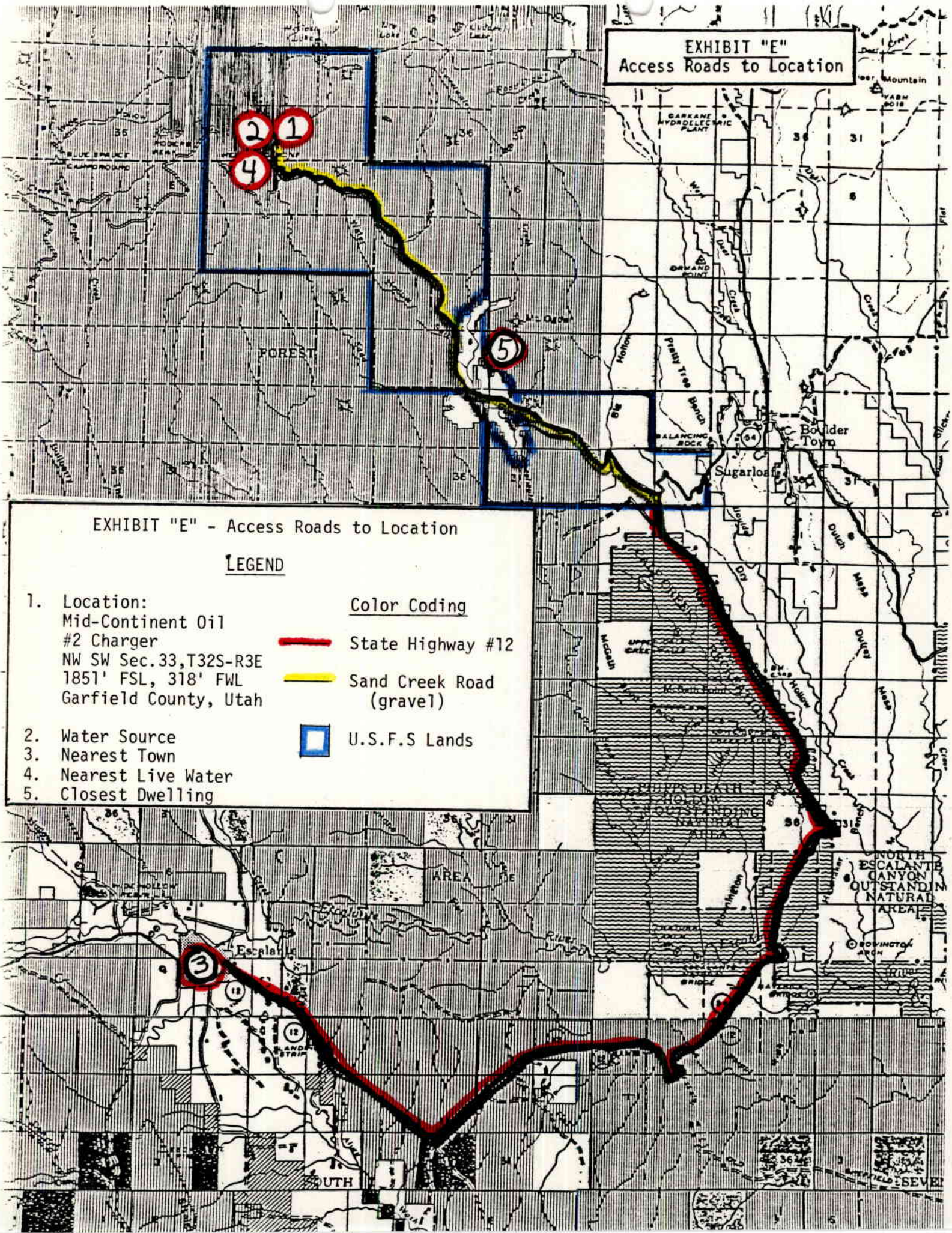






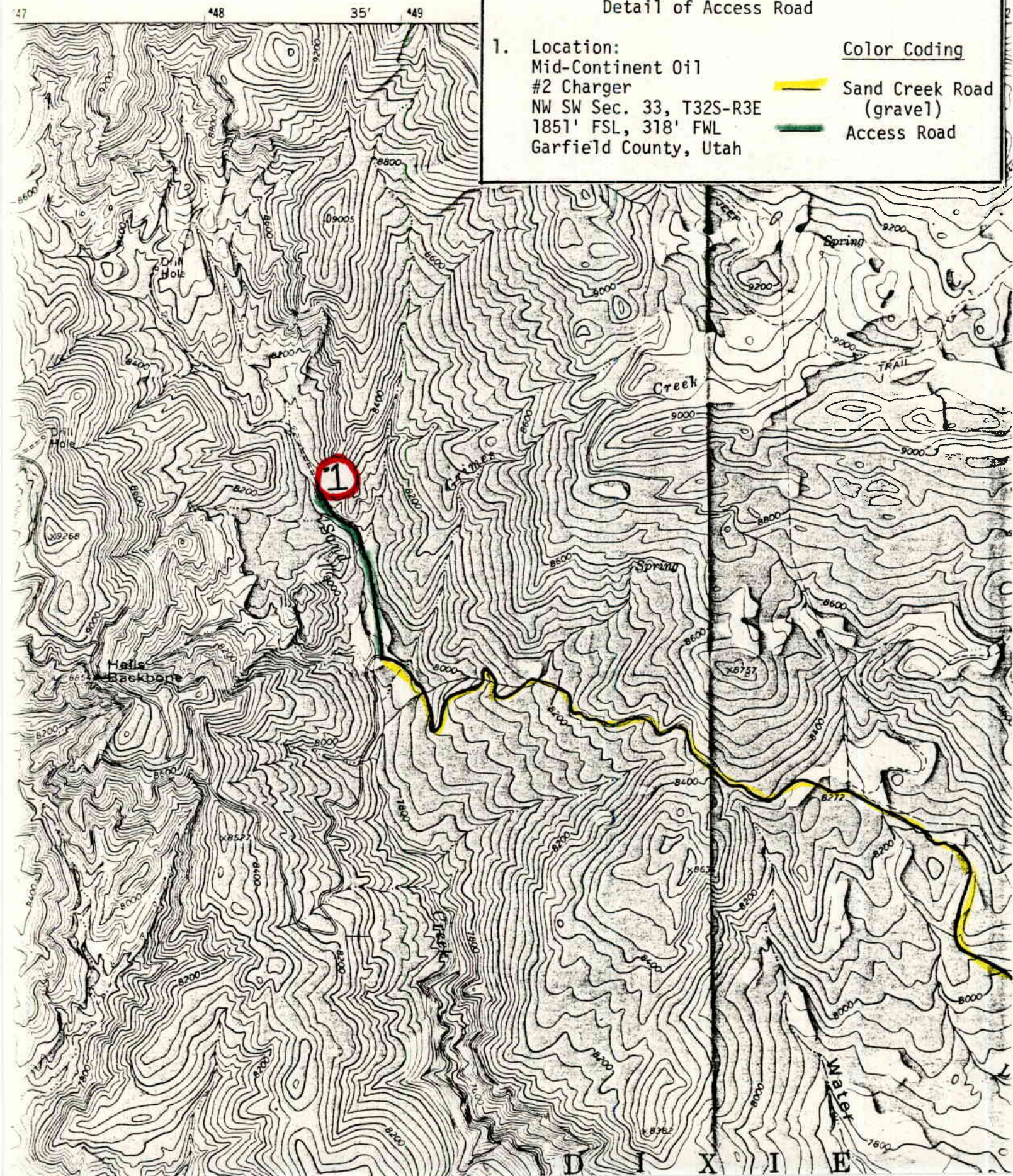
EXHIBIT "E<sub>1</sub>"

Detail of Access Road

1. Location:  
Mid-Continent Oil  
#2 Charger  
NW SW Sec. 33, T32S-R3E  
1851' FSL, 318' FWL  
Garfield County, Utah

Color Coding

-  Sand Creek Road  
(gravel)  
 Access Road





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Mid-Continent Oil &amp; Gas Reserves, Inc.

## 3. ADDRESS OF OPERATOR

12700 Park Central Place, Suite 1404, Dallas, Texas 75251

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

NW SW Sec. 33, T32S-R3E; 1851' FSL, 318' FWL

At proposed prod. zone

same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

33.8 miles north of Escalante, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

318'

## 16. NO. OF ACRES IN LEASE

1,405 800

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

80

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

---

## 19. PROPOSED DEPTH

3700'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

8039.5 GR

## 22. APPROX. DATE WORK WILL START\*

June 1, 1984

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	13-3/8" new or used	54.5#	120'	Cement in place
12-1/4"	9-5/8" new or used	36#K-55 ST&C	1300'	250 sxs Class "H" 3% CaCl <sub>2</sub>
7-7/8"	5 1/2" new or used	15.5#K-55 LT&C	3700'	250 sxs Class "H" 3% CaCl <sub>2</sub>

1. Drill 20" hole and set 120' interval of conductor pipe and cement in place.
2. Drill 12-1/4" hole and set 9-5/8" surface casing to 1300' with good returns.
3. Log B.O.P. checks in daily drill reports and drill 7-7/8" hole to 3700'.
4. Run tests if warranted and run 5-1/2" casing if productive.
5. Run logs, as needed, and perforate and stimulate as needed.

## EXHIBITS ATTACHED:

- "A" Location and Elevation Plat
- "B" The 10-Point Compliance Program
- "C" The Blowout Preventer Diagram
- "D" The Multi-Point Requirements of A.P.D.
- "E" & "E<sub>1</sub>" Access Road Maps to Location
- "F" Radius Map of Field
- "G" & "G<sub>1</sub>" Drill Pad Layout, Production Facilities & Cut-Fill Cross Sections
- "H" Drill Rig Layout
- "I" Unusual Environmental Assessment

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

John D. Stawler

TITLE

President

DATE

10/18/83

(This space for Federal or State office use)

PERMIT NO.

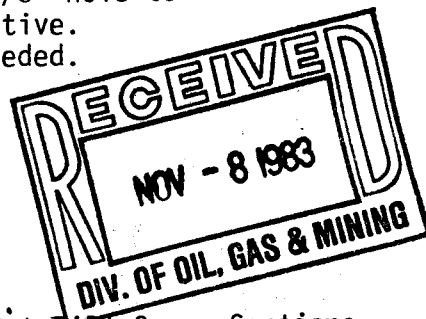
APPROVAL DATE

APPROVED BY

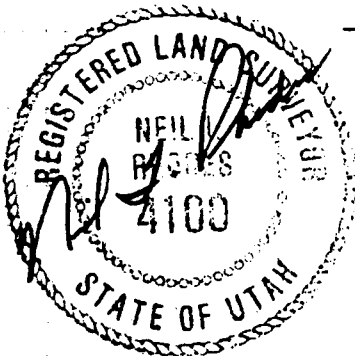
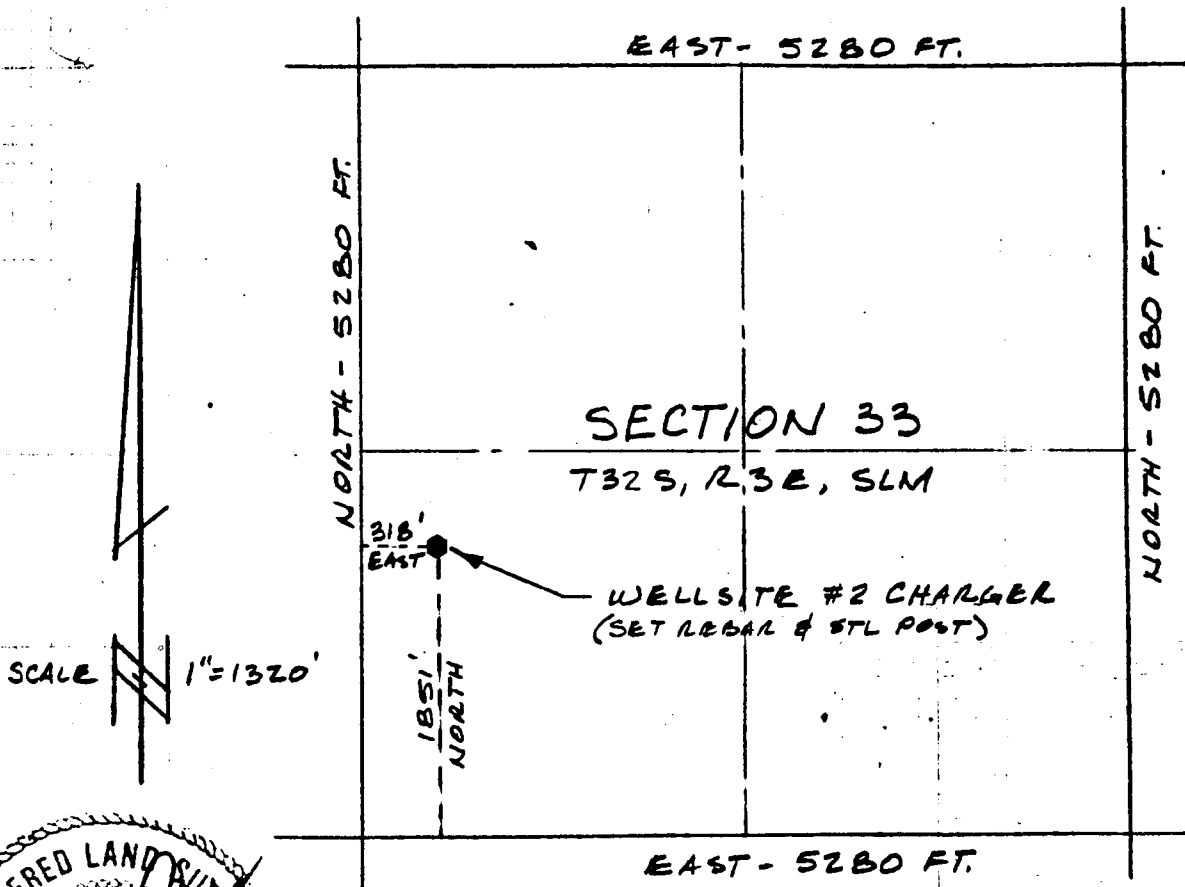
TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



OPERATOR: Mid-Continent Oil Company  
WELL NUMBER: #2 Charger  
LOCATION: Section 33, T32S, R3E, SLM  
COUNTY: Garfield  
STATE: Utah  
ELEVATION: Ground = 8039.5



REF marker #1 (rebar) - located East, 135.7 ft. from the center of well.

REF marker #2 (rebar) - located N 44°58' E, 141.0 ft. from the center of well.

Note: This well site falls within an unsurveyed area and the sectional ties shown are based on BLM protraction diagrams as they relate to section 25, T33S, R3E, SLM.

**BULLOCK BROS.  
ENGINEERING INC.**  
CEDAR CITY, UTAH

WELL LOCATION  
MAP FOR  
Mid-Continent Oil Company  
Dallas, Texas

REV'D 10/13/83  
DATE 10/31/83  
SCALE 1"=1320'  
DRAWN NLR

EXHIBIT "B"  
TEN-POINT COMPLIANCE PROGRAM  
OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331 C  
Mid-Continent Oil & Gas Reserves, Inc.  
#2 Charger  
NW SW Sec. 33, T32S-R3E  
1851' FSL, 318' FWL  
Garfield County, Utah

1. The Geologic Surface Formation

The surface formation is the Navajo Sandstone.

2. Estimated Tops of Important Geologic Markers

Chinle	900'
Shinarump	1365'
Moenkopi	1610'
Timpoweap	2287'
Kaibab	2380'
Toroweap-White Rim	2550'
Organ Rock	3135'
Cedar Mesa	3600'
Total Depth	3700'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

Shinarump	1365'	Gas
Timpoweap	2287'	Gas
Kaibab	2380'	Gas
Toroweap-White Rim	2550'	Gas
Cedar Mesa	3600'	Gas

No water will be encountered.

4. The Proposed Casing Program

<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>SECTION LENGTH</u>	<u>SIZE (OD)</u>	<u>WEIGHT, GRADE &amp; JOINT</u>	<u>NEW OR USED</u>
20"	0-120'	120'	13-3/8"	54.5#	Either
12 1/4"	0-1300'	1300'	9 5/8"	36# K-55 ST&C	Either
7 7/8"	0-3700'	3700'	5 1/2"	15.5# K-55 LT&C	Either

Cement Program -

Conductor Pipe: Cement to surface with ready mixed concrete.

Surface Casing: Cement with 250 sacks, Class H, 3% CaCl<sub>2</sub>

Production Casing: Cement with 250 sacks, Class H, 3% CaCl<sub>2</sub>

5. The Operator's Minimum Specifications for Pressure Control

EXHIBIT "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to half of working pressure after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams and annular preventer each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

Accessories to BOP will include a kelly cock, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

This well will be drilled with air mist from surface to total depth. Exhaust will be muffled. Other materials will be on site to handle any anticipated downhole problems as well as possible spills of fluid on the surface. If water flow is encountered, the well will be drilled with mud.

<u>DEPTH</u>	<u>TYPE</u>	<u>WEIGHT #/gal.</u>	<u>VISCOSITY-sec./qt.</u>	<u>FLUID LOSS cc</u>
0-3700'	Gel-chem	9	35 - 40	N/C

7. The Auxiliary Equipment to be Used

(a) A kelly cock will be kept in the string.



- (b) A float will not be used at the bit.
- (c) A gas detecting device will be monitoring the system.
- (d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

8. The Testing, Logging and Coring Programs to be Followed

(a) Drill Stem Tests will be determined during drilling.

(b) The logging program will consist of the following:

Gamma-Ray Neutron	Surface - TD
Density	Surface - TD
Temperature	Surface - TD

Other logs will be determined at site to best evaluate any shows.

(c) No coring is anticipated.

(d) Stimulation procedures will be determined after evaluation of logs. If treatment is indicated, appropriate Sundry Notice will be submitted for approval.

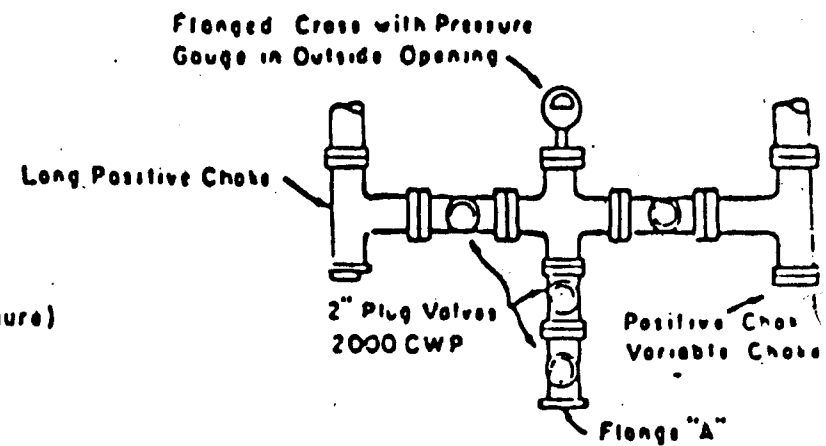
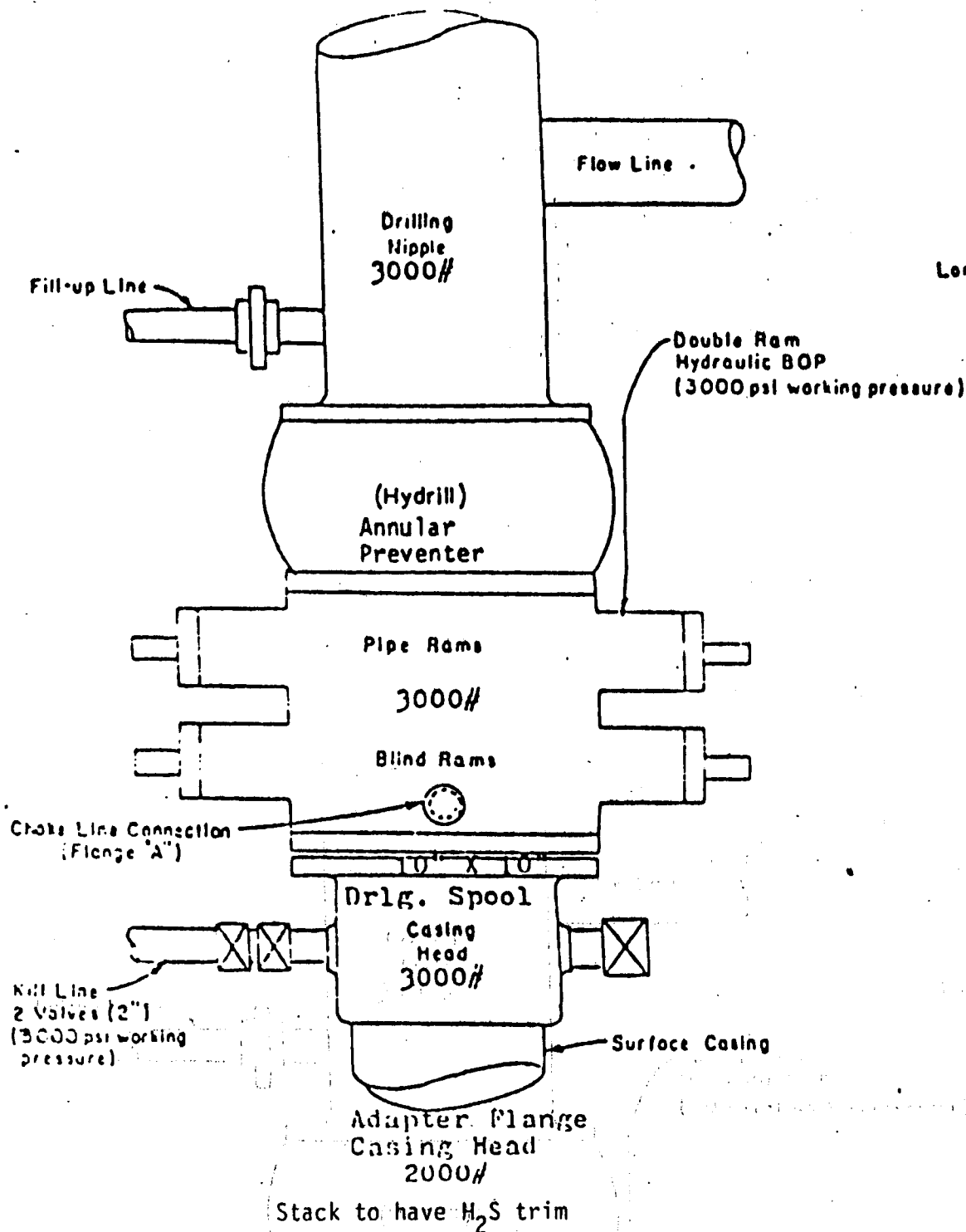
9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well. Bottom hole pressure expected is 110 psi  $\pm$ .

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date Duration of the Operations

The anticipated starting date is set for June 1, 1984. or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 20 days after spudding the well to casing point.



PLAN VIEW-CHOKE MANIFOLD

OPERATOR MID-CONTINENT OIL & GAS RESERVE INC DATE 11-10-83

WELL NAME CHARGER #2

SEC NWSW 33 T 32S R 3E COUNTY GARFIELD

43-017-30121  
API NUMBER

FED  
TYPE OF LEASE

POSTING CHECK OFF:

☐

INDEX

☐

MAP

☐

HL

☐

NID

☐☐

PI

PROCESSING COMMENTS:

NO GAS WELLS WITHIN 4960'

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 11-18-83

BY: [Signature]

✓ CHIEF PETROLEUM ENGINEER REVIEW:

11/19/83 ✓

Exception location

APPROVAL LETTER:

SPACING:

☐

A-3

UNIT

☐

c-3-a

CAUSE NO. & DATE

☐

c-3-b

☒

c-3-c

SPECIAL LANGUAGE:

WATER

☒ RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

☒ AUTHENTICATE LEASE AND OPERATOR INFORMATION

☒ VERIFY ADEQUATE AND PROPER BONDING *FE=1*

☒ AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

☒ APPLY SPACING CONSIDERATION

☐ ORDER *NO*

☐ UNIT *ND*

☐ c-3-b

☒ c-3-c

EX: \_\_\_\_\_  
DATE: \_\_\_\_\_  
OIL AND GAS DIVISION  
OF UTAH DIVISION OF  
APPROVED BY THE STATE

☒ CHECK DISTANCE TO NEAREST WELL.

☒ CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

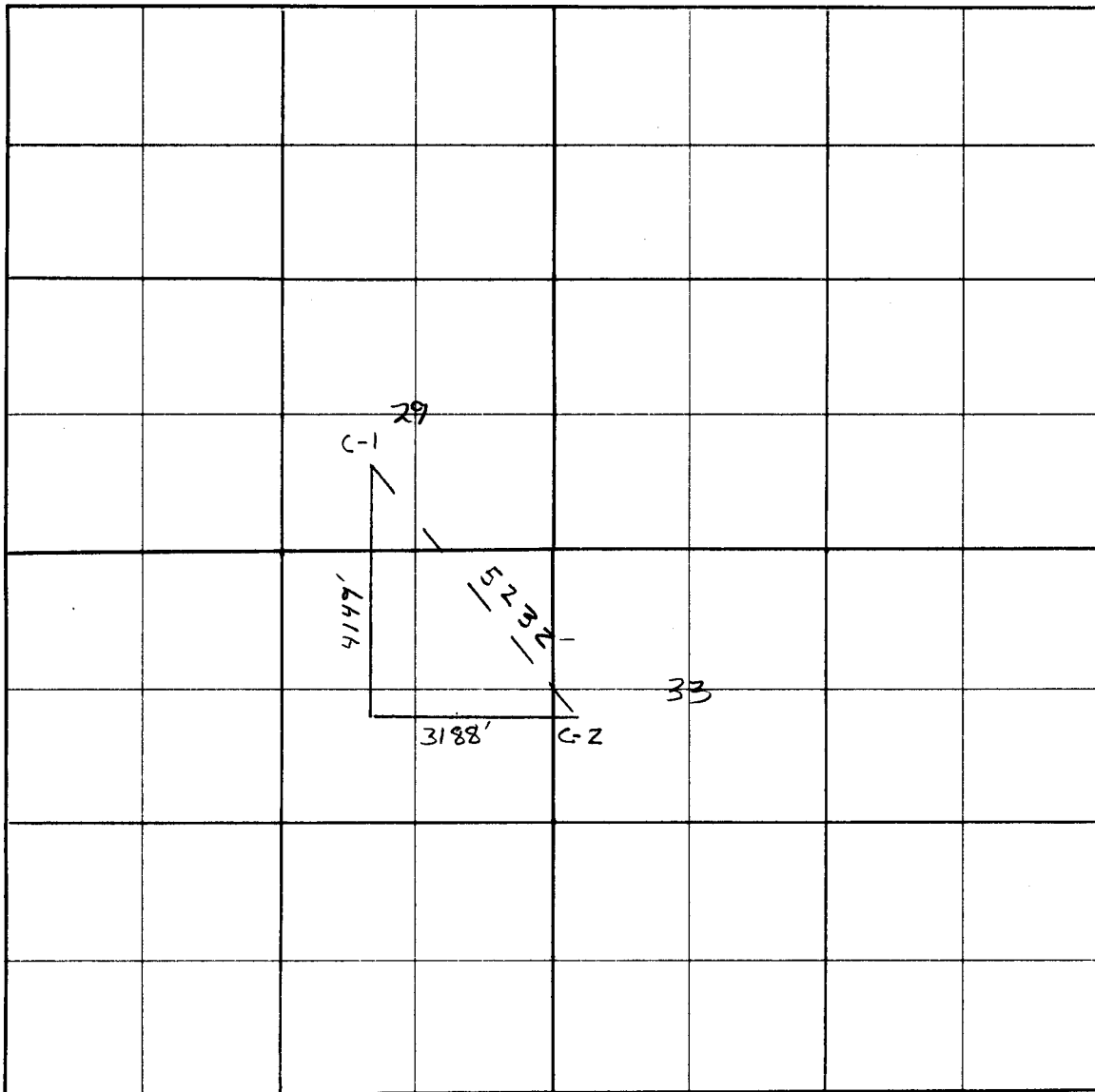
☒ IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

☒ IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

☒ VERIFY LEGAL AND SUFFICIENT DRILLING WATER

Township No. \_\_\_\_\_

Range No. \_\_\_\_\_



Meridian Line,

Base Line,

Standard Line,

Township Lines,

Section Line,

Meander Lines,

Office Work,

Ranch Lines Re-Survey,

Requires C-3-C as  
per Carol Rand

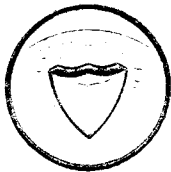
11-10-83

zpm

---

Rec'd 11-15-83

M



**ORLYN TERRY • GEOLOGIST • OIL & GAS PROPERTIES**

DIAMOND HILL, SUITE 470-C, 2460 WEST 26TH AVENUE, DENVER, COLORADO 80211 (303) 573-6166

November 11, 1983

**RECEIVED**  
NOV 15 1983

Mr. Norm Stout; Holding File  
Division of Oil, Gas & Mining  
State of Utah  
4241 State Office Building  
Salt Lake City, Utah 84114

**DIVISION OF  
OIL, GAS & MINING**

Dear Mr. Stout:

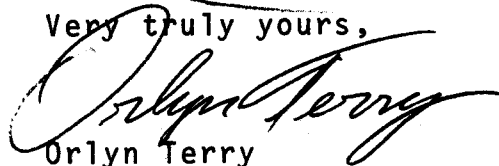
Re: #2 Charger  
NW SW Sec. 33, T32S-R3E  
Garfield County, Utah

Pursuant to your recent telephone conversation with this office, I request an exception in the location of the above-captioned well to a provision of Rule C-3-c.

The location is situated in extremely rugged topography, and the proposed location is the only spot on the existing road that can be drilled without causing considerable damage to the environment and the loss of numerous pine trees and other types of vegetation. Plans are now being made for an onsite inspection of the location with Quay Simons of the BLM.

There are no other leases held by any one other than Mid-Continent Oil & Gas Reserves, Inc. within a 660' radius of the proposed well location.

Very truly yours,

  
Orlyn Terry

OT:cr

cc: Mid-Continent Oil & Gas Reserves, Inc.  
ARCO Exploration

APPLICATION NO. ....  
DISTRIBUTION SYSTEM. ....

# Application For Temporary Change of Point of Diversion, Place or Purpose of Use STATE OF UTAH

(To Be Filed in Duplicate)

Salt Lake November 17, 1983  
Place Date

For the purpose of obtaining permission to temporarily change the point of diversion, place or purpose of use  
(Strike out written matter not needed)

of water, the right to the use of which was acquired by, .....  
(Give No. of application, title and date of Decree and Award No.)  
to that hereinafter described, application is hereby made to the State Engineer, based upon the following showing of  
facts, submitted in accordance with the requirements of the Laws of Utah.

- U.S.A. Forest Service
- The owner of right or application is .....
  - The name of the person making this application is Mid-Continent Oil & Gas Reserves, Inc.
  - The post office address of the applicant is 12700 Park Central Place, #1404, Dallas, Texas 75251

## PAST USE OF WATER

- The flow of water which has been used in second feet is .....
- The quantity of water which has been used in acre feet is 49.14 .....
- The water has been used each year from ..... to ..... incl.  
(Month) (Day) (Month) (Day)
- The water has been stored each year from ..... to ..... incl.  
(Month) (Day) (Month) (Day)
- The direct source of supply is West Sand Creek in Garfield County.
- The water has been diverted into ..... ~~detoh-~~ <sup>canal</sup> at a point located .....  
Stockwatering directly on stream from pt. of issuance. NE $\frac{1}{4}$ SW $\frac{1}{4}$  Sec.17, T32S-R3E, SLB&M  
to pt of streams confluence with Sand Creek in NE $\frac{1}{4}$ SE $\frac{1}{4}$  Sec.32, T32S-R3E, SLB&M.
- The water involved has been used for the following purpose: .....  
Supplementally for 1755 cattle in the Boulder allotment (See Map 21 Area 97)

NOTE: If for irrigation, give legal subdivisions of land and total acreage which has been irrigated. If for other purposes, give place and purpose of use.

## THE FOLLOWING TEMPORARY CHANGES ARE PROPOSED

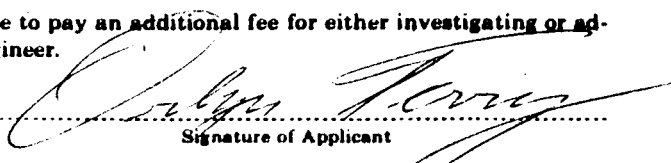
- The flow of water to be changed in cubic feet per second is .....
- The quantity of water to be changed in acre-feet is .25a.f. .....
- The water will be diverted into the ..... ~~detoh-~~ <sup>canal</sup> at a point located from West Sand  
Creek- .....
- The change will be made from ..... 19....., to ..... 19.....  
(Period must not exceed one year)
- The reasons for the change are Water is needed temporarily for purposes stated  
in #17.
- The water involved herein has heretofore been temporarily changed ..... 0..... years prior to this application.  
(List years change has been made)
- The water involved is to be used for the following purpose: Domestic use for 35 people employed  
in the drilling of a gas well and for cleaning and cooling of equipment.  
Well located NW SW Sec.33, T32S-R3E, Total..... acres.

NOTE: If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and purpose of proposed use.

## EXPLANATORY

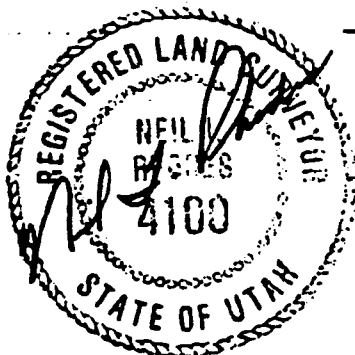
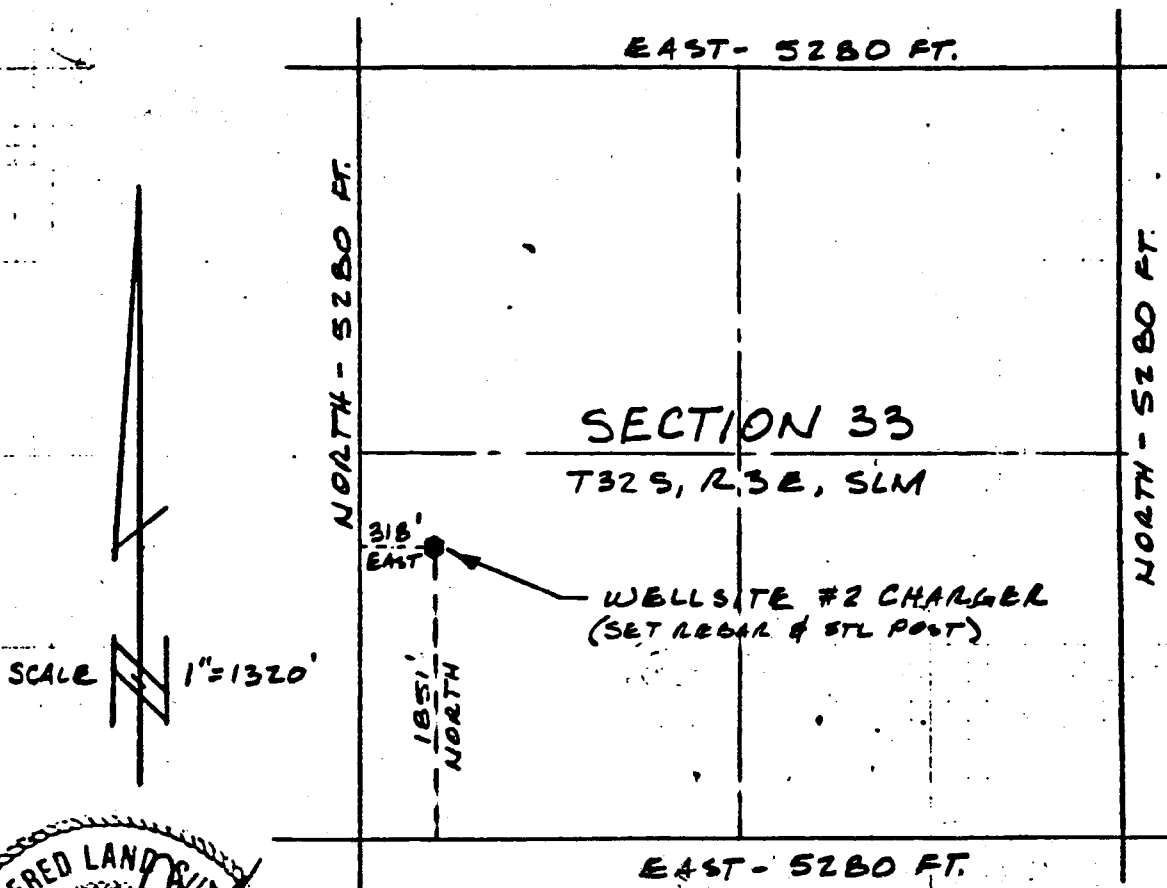
Gas well is being drilled with air. Water will be used  
for purpose above stated.

A filing fee in the sum of \$~~5000~~ is submitted herewith. I agree to pay an additional fee for either investigating or advertising this change, or both, upon the request of the State Engineer.

  
Signature of Applicant



OPERATOR: Mid-Continent Oil Company  
 WELL NUMBER: #2 Charger  
 LOCATION: Section 33, T32S, R3E, S1M  
 COUNTY: Garfield  
 STATE: Utah  
 ELEVATION: Ground = 8039.5



REF marker #1 (rebar) - located East, 135.7 ft. from the center of well.

REF marker #2 (rebar) - located N 44°58' E, 141.0 ft. from the center of well.

Note: This well site falls within an unsurveyed area and the sectional ties shown are based on BLM protraction diagrams as they relate to section 25, T33S, R3E, S1M.

**BULLOCH BROS.**  
**ENGINEERING INC.**  
 CEDAR CITY, UTAH

WELL LOCATION  
 MAP FOR  
 Mid-Continent Oil Company  
 Dallas, Texas

Rev'd 10/13/83  
 DATE 10/13/83  
 SCALE 1" = 1320'  
 DRAWN NCL

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

R3E

111°37'30"  
38°00'

1460000m E

4205000m N

T 32S

4204

4203

4202

32°30"

452

451

450

449

35°

448

447



November 18, 1983

Mid-Continent Oil & Gas Reserves, Inc.  
12700 Park Central Place, Suite 1404  
Dallas, Texas 75251

RE: Well No. Charger #2  
NWSW Sec. 38, T. 32S, R. 3E  
1851' FSL, 318' FWL  
Garfield County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to gas well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure. Prior to spudding, a copy of the Utah Division of Water Rights (Phone No. 801-533-6071) approval for use or purchase of drilling water must be submitted to this office, otherwise this approval is void.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Chief Petroleum Engineer  
Office: 533-5771  
Home: 571-6068

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

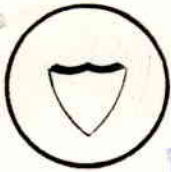
Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-017-30121.

Sincerely,

  
Norman C. Stout  
Administrative Assistant

NCS/as  
cc: Branch of Fluid Minerals  
Encl.



**MID-CONTINENT**

ORLYN TERRY • GEOLOGIST • OIL & GAS PROPERTIES

DIAMOND HILL, SUITE 470-C, 2460 WEST 26TH AVENUE, DENVER, COLORADO 80211 (303) 573-6166

RECEIVED  
NOV 29 1983

DIVISION OF  
OIL, GAS & MINING

November 17, 1983

RECEIVED  
NOV 21 1983

DIVISION OF  
OIL, GAS & MINING

Ms. Dorothy G. Boulton  
Water Rights Engineer  
1636 West North Temple  
Salt Lake City, Utah 84116

Dear Dorothy:

Re: **#2 Charger**  
NW SW Section 33, T32S-R3E  
Garfield County, Utah

Enclosed are several plats showing the proposed location of the #2 Charger which will be drilled on approximately June 1, 1984.

As with the past well, the #1 Charger, the intended well will be drilled with air; and the only water requirements will be for the equipment and drinking water for the personnel.

As you can see, the location will be situated approximately 85 feet due east of the Sand Creek, and we request your permission to approve our water permit for this well.

I hope the enclosed topographic map and surveyor's plat will give you the information you need to complete the enclosed Application for Temporary Change of Point of Diversion, Place or Purpose of Use form.

If you have any questions, please do not hesitate to contact me.

Very truly yours,

*Orlyn Terry*  
Orlyn Terry

OT:cr

Enclosures

cc: Mid-Continent Oil & Gas Reserves, Inc.  
ARCO Exploration Company  
✓ **Utah Oil & Gas Commission**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Mid-Continent Oil &amp; Gas Reserves, Inc.

## 3. ADDRESS OF OPERATOR

12700 Park Central Place, Suite 1404, Dallas, Texas 75251

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

NW SW Sec. 33, T32S-R3E; 1851' FSL, 318' FWL

At proposed prod. zone

same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

33.8 miles north of Escalante, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

318'

## 16. NO. OF ACRES IN LEASE

1,405

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

80

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

---

## 19. PROPOSED DEPTH

3700'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

8039.5 GR

## 22. APPROX. DATE WORK WILL START\*

June 1, 1984

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

RECEIVED  
FEB 9 1984DIVISION OF  
OIL, GAS & MINING

## preventer program, if any.

## 24.

SIGNED

John D. Stawler

TITLE

President

DATE

10/18/83

(This space for Federal or State office use)

## PERMIT NO.

## APPROVAL DATE

## APPROVED BY

M. Jensen

TITLE

DISTRICT MANAGER

DATE

30 June 1984

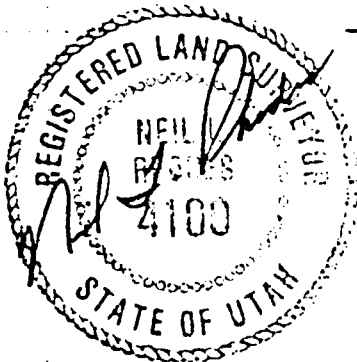
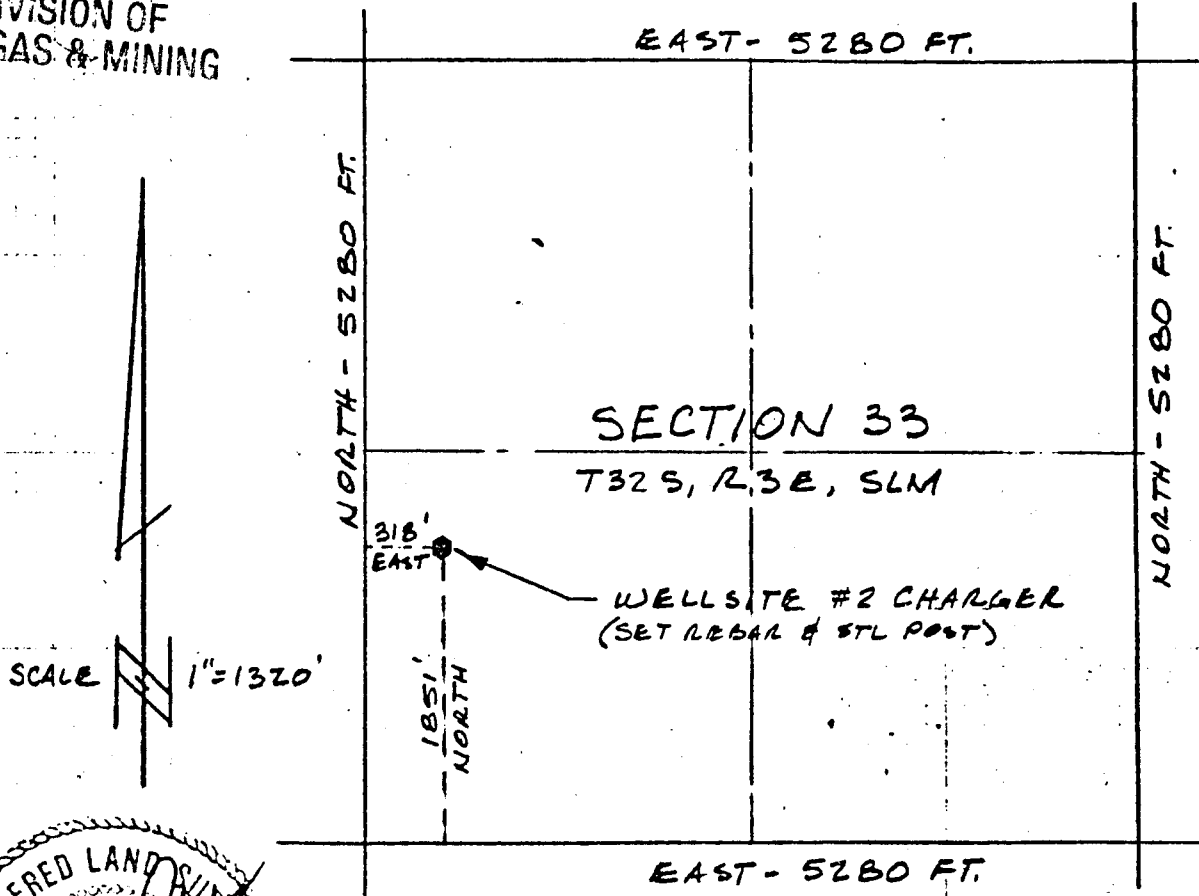
## CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL.

CONDITIONS OF APPROVAL ATTACHED  
TO OPERATOR'S COPYFLARING OR VENTING OF  
GAS IS SUBJECT TO NTL 4-A  
DATED 1/1/80

OPERATOR: Mid-Continent Oil Company  
WELL NUMBER: #2 Charger  
LOCATION: Section 33, T32S, R3E, S1M  
COUNTY: Garfield  
STATE: Utah  
ELEVATION: Ground = 8039.5

DIVISION OF  
GAS & MINING



REF marker #1 (rebar) - located East, 135.7 ft. from the center of well.

REF marker #2 (rebar) - located N 44°58' E, 141.0 ft. from the center of well.

Note: This well site falls within an unsurveyed area and the sectional ties shown are based on BLM protraction diagrams as they relate to section 25, T33S, R3E, S1M.

**BULLOCH BROS.  
ENGINEERING INC.**  
CEDAR CITY, UTAH

WELL LOCATION  
MAP FOR  
Mid-Continent Oil Company  
Dallas, Texas

REV'D 10/13/83  
DATE 10/3/83  
SCALE 1" = 1320'  
DRAWN NLN

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Mid-Continent Oil and Gas Reserves, Inc. Well No. #2 charged

Location 1851' FSL, 318 FWL Sec. 33, T32S, R3E. Lease No. 29834

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE

**RECEIVED**  
FEB 2 1967  
DIVISION OF  
OIL, GAS & MINING

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (30 CFR 221), and the approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

1. There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling producing, suspended, or abandoned shall be identified in accordance with 30 CFR 221.22. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported and protected.
3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office, but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 9-331). Unless the plugging is to take place immediately upon receipt of oral approval, the District Manager must be notified at least 48 hours in advance of the plugging of the well in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 9-331) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not be completed at that time, a followup report on form 9-331 should be filed when all surface restoration has been completed and the location is considered ready for final inspection.



4. The spud date will be reported orally to the respective District Manager's office within 48 hours after spudding. If the spudding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Manager's office on a frequency and form or method as may be acceptable to the District Manager.

In accordance with NTL-1, this well must be reported on Form 9-329 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed, in duplicate, directly with Royalty Management Accounting Center, Minerals Management Service, P.O. Box 2859, Casper, Wyoming 82602.

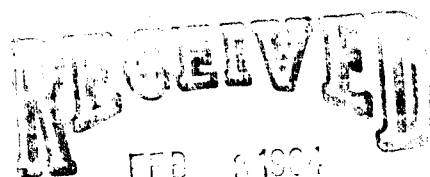
Any change in the program must be approved by the District Manager. "Sundry Notices and Reports on Wells" (form 9-331) must be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alternation of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6, and prior approval by the District Manager.

5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (form 9-330) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 30 CFR 221.59. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 9-330. Samples (cutting, fluid, and/or gas) will be submitted only when requested by this office.
6. Significant surface values ~~(are)~~ (are not) involved at this location. Accordingly, you ~~(must)~~ (need not) notify at least (24) (48) hours prior to commencing field operations to allow this office to have personnel present for consultation during the construction of roads and locations.

Your contract with this office is: Quay M. Simons  
Office Phone: (801) 826-4291 Home Phone: (801) 826-4638  
City: Escalante State: Utah

District Manager's Office Address and contacts are:

Address: 1579 North Main, Cedar City, Utah  
District Manager: (801) 586-2401 Home Phone: \_\_\_\_\_



DIVISION OF  
OIL & MINING



7. SURFACE OPERATING STANDARDS

Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development". This includes but is not limited to such items as road construction and maintenance, handling of top soil and rehabilitation.

8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed, for prior approval of the District Manager, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Manager's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
10. This permit is valid for a period of one year from the date of approval. If construction does not commence within 90 days from approval, the operator must contact this office 15 days prior to beginning construction. Construction under adverse conditions may require additional stipulations. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, it is required that a new application be filed for approval for any future operations.
11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.
12. This Application for Permit to Drill is approved subject to the requirement that, should the well be successfully completed for production, this office must be notified when it is placed in a producing status. Such notification will be by telegram or other written communication, and must be received in this office by not later than the first business day next following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - a. Operator name, address and telephone number.
  - b. Well name and number.
  - c. Well location ( $\frac{1}{4}$ ,  $\frac{1}{4}$  Section, Township, Range and Prime Meridian).
  - d. Date was placed in a producing status.
  - e. The nature of the well's production, i.e. crude oil, or crude oil and casinghead gas, or natural gas and entrained liquid hydrocarbons.

- f. The OCS, Federal or Indian lease prefix and number on which the well is located. Otherwise, the non-Federal or non-Indian land category, i.e. State or private.
- g. If appropriate, the unit agreement name, number and participating area name.
- h. If appropriate, the communitization agreement number.

13.

---

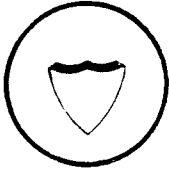
---

---

---

SUPPLEMENTAL STIPULATIONS OF APPROVAL ATTACHED

- 1) Pad construction will not go beyond red flag line on the west side of the location.
- 2) The reserve pit will be located on the east side of the drill pad.
- 3) An open roadway must be maintained through the location to facilitate logging operations occurring to the north of the drill site.
- 4) All exhaust lines will be located in a manner that protects live trees during drilling operations.
- 5) To protect fresh water aquifers in the Navajo and Wingate Formations, adequate cement must be used in the 1,100 foot intermediate casing string to circulate to surface.
- 6) Sample any water shows from the Navajo and Wingate Formations. Provide the results of sampling to the Bureau of Land Management, Cedar City District.



ORLYN TERRY • GEOLOGIST • OIL & GAS PROPERTIES

DIAMOND HILL, SUITE 470-C, 2460 WEST 26TH AVENUE, DENVER, COLORADO 80211 (303) 573-6166

RECEIVED  
MAY 14 1984  
WATER RIGHTS

May 10, 1984

Mr. Edgar Guynn, Chief  
Bureau of Land Management  
136 East South Temple  
Salt Lake City, Utah 84111

Dear Mr. Guynn:

Re: #2 Charger  
NW SW Sec.33, T32S-R3E  
Garfield County, Utah

This letter is to advise you that Mid-Continent Oil & Gas Reserves, Inc. intends to use Escalante municipal water acquired from Lincoln Lyman Construction Company to drill the subject test.

For this reason, we have requested the return of our "Application for Temporary Change of Point of Diversion" from the State of Utah Natural Resources and Energy Department.

Very truly yours,

  
Orlyn Terry

OT:cr

cc: Lincoln Lyman  
Mid-Continent Oil & Gas Reserves, Inc.  
Dorothy Bolton, Division of Water Rights  
Gerald Stoker, Engineer State Water Department  
Frank Jensen, Dixie National Forest

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other ☐  
2. NAME OF OPERATOR  
Mid-Continent Oil & Gas Reserves, Inc.  
3. ADDRESS OF OPERATOR  
12700 Park Central Pl., #1404, Dallas, Texas 7525  
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: NW SW Sec. 33, 1851' FSL, 318' FWL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) Correction on APD

SUBSEQUENT REPORT OF:

☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐

**RECEIVED**

JUN 14 1984

DIVISION OF OIL  
GAS & MINING

5. LEASE  
U-53741  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A  
7. UNIT AGREEMENT NAME  
N/A  
8. FARM OR LEASE NAME  
Charger  
9. WELL NO.  
#2 Charger  
10. FIELD OR WILDCAT NAME  
Wildcat  
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 33, T32S-R3E  
12. COUNTY OR PARISH  
Garfield  
13. STATE  
Utah  
14. API NO.  
#43-017-30121  
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
8039.5' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Pursuant to a Decision from the BLM (copy attached), please change the Lease Number on the APD from U-29834 to U-53741. The total No. of acres in Lease (#16 on the APD) should also be changed from 1,405 to 800.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Orlyn Terry TITLE Authorized Agent DATE June 11, 1984

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
UTAH STATE OFFICE  
136 E. SOUTH TEMPLE  
SALT LAKE CITY, UTAH 84111

IN REPLY REFER TO

3100  
U-29834  
(U-942)

RECEIVED

JUN 14 1984

## DECISION

Mid-Continent Oil and Gas : Oil and Gas Lease  
Reserves, Inc. : U-29834  
12700 Park Central III, Suite 1404 :  
Dallas, Texas 75251 :

DIVISION OF OIL  
GAS & MINING

### Lease Segregated

The Death Hollow Unit Agreement was approved effective August 12, 1983, with Mid-Continent Oil and Gas Reserves, Inc. as unit operator.

Part of the lands in the subject oil and gas lease are within the unit area and are committed to the unit agreement. Under the regulations in 43 CFR 3107.3-2, oil and gas lease U-29834, dated February 1, 1979, is hereby segregated as to the lands outside the unit area as follows:

### Lands within the unit area, retaining Serial No. U-29834:

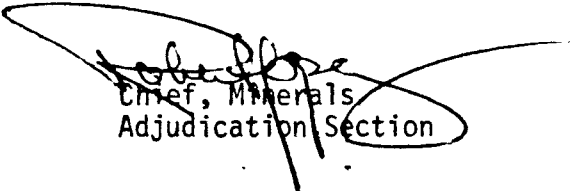
T. 32 S., R. 3 E., SLM, Utah  
Sec. 19, N $\frac{1}{2}$ NE $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$ , NW $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ , SW $\frac{1}{4}$ SW $\frac{1}{4}$ ;  
Sec. 20, N $\frac{1}{2}$ N $\frac{1}{2}$ , SE $\frac{1}{4}$ NE $\frac{1}{4}$ ;  
Sec. 28, N $\frac{1}{2}$ , SW $\frac{1}{4}$ ;  
Sec. 30, NW $\frac{1}{4}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ SW $\frac{1}{4}$ ;  
Sec. 31, W $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ ;  
Sec. 32, SE $\frac{1}{4}$ NE $\frac{1}{4}$ .

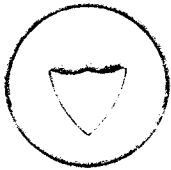
Containing 1,405.00 acres, Annual Rental \$1,405.00

### Lands outside the unit area, segregated and given Serial No. U-53741:

T. 32 S., R. 3 E., SLM, Utah  
Sec. 28, SE $\frac{1}{4}$ ;  
Sec. 32, NE $\frac{1}{4}$ SE $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$ ;  
~~Sec. 33, N $\frac{1}{2}$ , N $\frac{1}{2}$ S $\frac{1}{2}$ , S $\frac{1}{2}$ SE $\frac{1}{4}$ .~~

Containing 800.00 acres, Annual Rental \$800.00

  
Chief, Minerals  
Adjudication Section



ORLYN TERRY • GEOLOGIST • OIL & GAS PROPERTIES

~~DIAMOND HILL SUITE 4700 7400 WEST 26TH AVENUE DENVER, COLORADO 80211 (303) 573-0486~~

3000 Youngfield suite 338 Denver colo 80215

Ron Firth  
Utah Oil & Gas  
Commission  
4241 State office bldg.  
Salt Lake City Utah 84114

Dear sirs,

Pursuant to our  
telephone conversation I am  
enclosing notice of intent  
to drill the #2 charger and  
the #4 charger.

VT/

Orlyn Terry

cc. mid continent

RECEIVED

OCT 15 1984

DIVISION OF OIL  
GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT TRIPLICATE  
(Other instructions on reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U 53741
2. NAME OF OPERATOR Mid Continent Oil & Gas Reserves Inc		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR 12,700 Park Central Pl #1404 Dallas Texas 75251		7. UNIT AGREEMENT NAME N/A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface NW SW 33 1851' FSL 318' FWL		8. FARM OR LEASE NAME OOVE
14. PERMIT NO.		9. WELL NO. #2 Charger
15. ELEVATIONS (Show whether OF, RT, OR, etc.) 8039.5 Ground		10. FIELD AND POOL, OR WILDCAT Death Hollow
		11. SEC., T., R., M., OR BLE. AND SURVEY OR ABBA Sec 33 - T32S R3E
		12. COUNTY OR PARISH 13. STATE

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

### NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐  
☐  
☐  
☐

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

Drill

☐  
☐  
☐  
☐  
☒

### SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

☐  
☐  
☐

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

☐  
☐  
☐

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Notice of intent to  
spud well approx Sept 1 1984

RECEIVED

OCT 15 1984

DIVISION OF OIL  
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

*Colyn Ferry*

TITLE

*Authorized agent*

DATE

*Aug 27/84*

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

# MID-CONTINENT OIL

## Executive Offices:

12700 Park Central Place, Suite 1404  
Dallas, Texas 75251  
214/233-3380 • 214/233-3381

November 27, 1984

RECEIVED  
DEC 03 1984

DIVISION OF  
OIL, GAS & MINING

State of Utah Natural Resources  
Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT. 84114

Attn: Ms. Dianne R. Nielson, Director

RE: Your letter of September 8, 1984.....  
Confidentiality Guidelines

Dear Ms. Nielson:

Thank you for your letter of September 8th informing us of the new guidelines established by the Utah State Legislature during 1983 General Session, now known as Utah Senate Bill #157.

Enclosed herewith is a Xerox copy of certain information submitted by Orlyn Terry, a Denver based consulting geologist for this company. Unfortunately, we are not satisfied with Mr. Terry's attention to details, etc. We, therefore, would like all correspondence and future notices be addressed to Mid-Continent Oil Company, 12700 Park Central Place, Suite 1404, Dallas, TX. 75251 to the attention of Ms. Sandra Sparks, Corporate Secretary.

Due to the fact that the undated letter from Orlyn Terry to someone in the Utah Oil and Gas Commission is not legible, I would appreciate if you would see that this letter and the enclosed forms OGC 1b, be delivered to the proper authority with instructions that he contact our office relative to any and all information needed to up date your records in Salt Lake.

Thank you very much for your courtesy.

Very truly yours,

  
John D. Slawter,  
President

Enclosures as stated

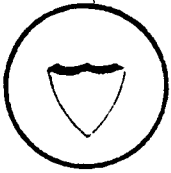


State of Utah  
Oil, Gas & Mining

November 27, 1984

Page 2

cc: Ms. Sandra Sparks  
Mr. W. W. Hall, P.E.  
Ms. Dorothy B. Swindel  
Mr. Daniel Jarvis



ORLYN TERRY • GEOLOGIST • OIL & GAS PROPERTIES

~~3000 YOUNGFIELD SUITE 338 WEST 28TH AVENUE DENVER, COLORADO 80211 (303) 573-0466~~  
3000 Youngfield suite 338 Denver CO 80215

Hon Airtel  
Airtel Oct 4 1966  
Commissioner  
4241 State Office Bldg.  
Salt Lake City 91 tel. 84114

Dear sirs,

Pursuant to our  
telephone conversation I am  
enclosing notice of intent  
to drill the #2 charger and  
the #4 charger.

VTY

Orlyn Terry

cc mid continent



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

January 4, 1985

Ms. Sandra Sparks  
Corporate Secretary  
Mid Continent Oil  
12700 Park Central Place, Suite 1404  
Dallas Texas 75251

Dear Ms. Sparks:

Re: Well No. Charger #2 - Sec. 33, T. 32S., R. 3E.  
Garfield County, Utah - API #43-017-30121

Our records indicate that your company has not filed a subsequent notice of spudding or the monthly drilling reports from the date of spudding to the present on the above referred to well. It is necessary to provide monthly status or drilling reports for all wells which have been spudded, but not completed.

Please complete the enclosed forms and forward them to this office as soon as possible, but not later than February 5, 1985.

Your prompt attention to this matter will be greatly appreciated.

Sincerely,

A handwritten signature in cursive script, reading "Claudia L. Jones".

Claudia L. Jones  
Well Records Specialist

Enclosures (3)  
cc: Dianne R. Nielson  
Ronald J. Firth  
John R. Baza  
File  
0051S/7

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-53741
2. NAME OF OPERATOR Mid-Continent Oil & Gas Reserves, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR 12700 Park Central #1404		7. UNIT AGREEMENT NAME N/A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW SW Sec. 33, 1851' FSL, 318' FWL		8. FARM OR LEASE NAME Charger
14. PERMIT NO. 43-017-30121		9. WELL NO. #2 Charger
15. ELEVATIONS (Show whether OF, RT, GR, etc.) 8,039.5' GR		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 33, T32S-R3E
		12. COUNTY OR PARISH Garfield
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

status report

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(Note: Report results of multiple completion on Well Completion or Completion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The Charger #2 is in a completed status, including the setting of the 5½" stainless steel christmas tree, which includes twin dual gate valves, butterfly valves, etc. This well is equipped and ready for production with the exception that it has not been perforated. This well will not be perforated until production contracts for the use of CO2 have been negotiated. It is anticipated that these CO2 sales contracts will be completed when the subject area (i.e. Escalante structure) has been proven to no less than one trillion cubic feet of CO2 gas reserves.

RECEIVED  
JAN 23 1985DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Corporate Secretary

DATE 1/15/85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 29, 1985

Mid-Continent Oil & Gas Reserves  
12700 Park Central #1404  
Dallas, Texas 75251

Gentlemen:

Re: Well No. Charger 2 - Sec. 33, T. 32S., R. 3E.,  
Garfield County, Utah - API #43-017-30121

This letter is to advise you that the "Well Completion or Recompletion Report and Log" for the above referenced well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, and forward it to this office as soon as possible, but not later than August 12, 1985.

Sincerely,

Pam Kenna  
Well Records Specialist

Enclosure

cc: Dianne R. Nielson  
Ronald J. Firth  
John R. Baza  
File

0170S/8

Ed,  
Check w/ BLM  
on this well also.  
It may have been  
plugged recently.

Still SI - not PIA'd  
still hoping to lay - JRB  
pipeline  
Contact Theron Mitchell  
Cedar City BLM 586-2401

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.

U - 53741

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Charger

9. WELL NO.

# 2 Charger

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY  
OR AREA

Sec. 33, T 32S, R 3E

12. COUNTY OR  
PARISH

Garfield

13. STATE

Utah

14. ELEVATIONS (DF, RES, RT, GR, ETC.)\*

8,039.5' GR 8046 KB 8,046.5'

15. ELEV. CASINGHEAD

8,046.5'

25. WAS DIRECTIONAL  
SURVEY MADE

Yes

27. WAS WELL CORDED

No

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐

2. NAME OF OPERATOR

Mid-Continent Oil &amp; Gas Reserves, Inc.

3. ADDRESS OF OPERATOR

12700 Park Central #1404 Dallas, Texas 75251

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface NW SW Sec. 33, 1851' FSL, 318' FWL

At top prod. interval reported below

2126 - 2357'

At total depth

2,988' - 3,035'

14. PERMIT NO.

43-017-30121

DATE ISSUED

01/30/84

15. DATE SPUDDED

08/01/84

16. DATE T.D. REACHED

08/17/84

17. DATE COMPL. (Ready to prod.)

See No. 31

18. ELEVATIONS (DF, RES, RT, GR, ETC.)\*

8,039.5' GR 8046 KB

19. ELEV. CASINGHEAD

8,046.5'

20. TOTAL DEPTH, MD &amp; TVD

3,035'

21. PLUG, BACK T.D., MD &amp; TVD

2,992'

22. IF MULTIPLE COMPL.,  
HOW MANY\*

N/A

23. INTERVALS  
DRILLED BY

Rotary Tools

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

Triassic 2,126' - 2,357' Shinarump Sandstone (Chinle)

25. WAS DIRECTIONAL  
SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

Sidewall Neutron, Formation Density

27. WAS WELL CORDED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.5	120' KB	17 1/2"	5 yards	N/A
9 5/8"	36.0	2,078'	12 1/2"	400 sacks + 9 yards	N/A
5 1/2"	15.5	2,992'	7 7/8"	Completed open hole w/	a sequence

of metal petal baskets set at non-producing intervals and cemented.

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

31. PERFORATION RECORD (Interval, size and number)

This well will not be perforated until contracts for the use of CO<sub>2</sub> have been negotiated. Its anticipated that these CO<sub>2</sub> sales contracts will be completed when the subject area has been proven to NO LESS than One trillion CU. FT. of CO<sub>2</sub> gas reserves.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED

N/A N/A

33. DATE FIRST PRODUCTION

See Item 31

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

N/A

WELL STATUS (Producing or shut-in)

Operation N/A Suspended

DATE OF TEST

See Flow Test Sheet Attached

HOURS TESTED

N/A

CHOKE SIZE

N/A

PROD'N. FOR TEST PERIOD

N/A

OIL—BSL.

N/A

GAS—MCF.

38.32 MMCFPB

WATER—BSL.

N/A

GAS-OIL RATIO

N/A

FLOW. TUBING PRESS.

N/A

CASING PRESSURE

N/A

CALCULATED 24-HOUR RATE

N/A

OIL—BSL.

N/A

GAS—MCF.

38.32 MMCFPB

WATER—BSL.

N/A

OIL GRAVITY—API (CORR.)

N/A

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Hole drilled on air, CO<sub>2</sub> produced thru blue line until T.D. reached tested, logged & cased.

TEST WITNESSED BY

Bill Crismon, Drilling Eng

35. LIST OF ATTACHMENTS

Flow Sheet, Geology Report, Sidewall Neutron, Formation Density Log

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

S.B. Sparks

TITLE

Corporate Secretary

DATE

08/06/85

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement". Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	HEAD. DEPTH TOP	TRUE VERT. DEPTH
			Wellsite geologist report attached which includes, but is not limited to, all of the information requested in item #37 and Item #38	KAYENTA	1300'	
				CHINLE	1650'	
				SHINARUMP	2126'	
				MOENKOPI	2360'	
				SINBAD	2990'	

Mid-Continent Oil Company  
Charger #2

RECEIVED

AUG 12 1985

FLOW TESTS

DIVISION OF OIL  
GAS & MINING

#	Date	Depth	Test
1	8-15	2565'	1" Orifice. Initial shut-in pressure 34 psi. Stabilized flow pressure (1/2 hr flow): 32 psi. Rate through choke 994 MCFPD. Estimated open flow potential: 36 MMCFPD.
2	8-16	2873'	3/4" Orifice. No initial shut-in pressure available. Flow pressure: 36 psi. Note that flow pressure increased 2 psi during 1/2 hr flow period from 34 psi at start to 36 psi at end. Rate through orifice: 594 MCFPD. Estimated open flow potential: 38 MMCFPD.

Remarks:

Estimated open flow potentials were based upon a 6" minimum restriction so that values from Charger #2 could be readily compared to values from Charger #1. Adjustments for specific gravity other than 0.6, for temperature other than 60 degrees F, or for atmospheric pressure other than 14.65 p.s.i.a. were not made.

Pressures from Charger #2 were recorded by a Swan Orifice Tester whereas pressures from Charger #1 were made across the face of a choke.



Mid-Continent Oil Company  
Charger #2

### SUMMARY OF SHOWS AND LITHOLOGY

The following descriptions are interpretive. From 1300' to 2126' descriptions are based only on samples and are not tied to drilling time log. From 2126' to 2874' samples are tied to the wireline logs. 2874' appears to be the top of wet cement from plugging back--2855' was expected top of cement. From 2874' - 3035' TD descriptions are again based only on samples and are not tied to drilling time log. Sample quality was generally good. Samples were collected as follows:

<u>Depth</u>	<u>Interval</u>
120' - 990'	30'
990' - 1700'	10'
1700' - 1800'	20'
1800' - 2200'	10'
2200' - 2650'	30'
2650' - 3035' TD	10'

Grain size was determined by use of the American Stratigraphic Company standard. Rock colors were compared to the Rock-Color Chart distributed by the Geological Society of America. All cut tests for hydrocarbons were performed with acetone unless noted otherwise. Calcareousness refers to the reaction of drill cuttings in 10% HCl. Wherever practical, calcite was differentiated from dolomite by staining with Alizarin Red S as well as by quality of effervescence.

The sample study begins in the Triassic Kayenta Formation and Wingate Sandstone Undivided.

#### KAYENTA FORMATION & WINGATE SANDSTONE UNDIVIDED

1300' - 1320'      Sandstone, pale reddish brown to moderate reddish orange; very fine to fine grained; subrounded; well sorted; friable; very slightly calcareous or slightly dolomitic; trace white anhydrite/gypsum cement; quite clean to very clean; sparsely peppered; fair to good visual porosity. Also Sandstone, unconsolidated in samples; white and moderate reddish orange; fine grained; subrounded to rounded; some rounded to well rounded medium to coarse grains; well sorted, some medium sorted; possible cavings. Trace Shale, grayish red, mottled medium light gray; smooth; soft to firm; non-calcareous; platy.

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

- 1320' - 1350' Sandstone, unconsolidated in samples; white and moderate reddish orange; as above, 1300' - 1320'. No show.
- 1350' - 1400' Sandstone, pale reddish brown; very fine to fine grained; subrounded; well sorted, rarely medium sorted due to rounded and well rounded medium grains; friable; very slightly calcareous or dolomitic; trace white anhydrite/gypsum cement; quite clean; sparsely peppered; trace muscovite; fair to good visual porosity. Also Sandstone, moderate reddish orange; fine grained, some very fine grained; subrounded; well sorted; occasionally medium sorted due to subrounded to well rounded medium to coarse grains (bimodal); very slightly calcareous or dolomitic; minor white anhydrite/gypsum cement; very sparsely peppered; generally no muscovite; clean; good visual porosity. Some Sandstone, unconsolidated in samples, as above 1300' - 1320'. Trace Shale, grayish red, dark reddish brown, few chips light greenish gray; smooth; soft to firm; non-calcareous; swells and disintegrates in HCl. No show.
- 1400' - 1520' Sandstone, moderate reddish orange; fine grained, some very fine grained; subrounded; well sorted; occasionally medium to poorly sorted due to rounded to well rounded medium to coarse grains (bimodal) which may represent aeolian lag; very slightly calcareous or dolomitic; minor white anhydrite/gypsum cement; sparsely peppered; generally no muscovite; mostly clean; fair to good visual porosity. No show.
- 1520' - 1550' Sandstone, moderate reddish orange; as above 1400' - 1520'. Increased Sandstone, unconsolidated in samples; moderate reddish orange, some white; predominantly fine grained; subrounded; occasionally rounded to well rounded medium to coarse grains; well sorted, some medium to poorly sorted. No show.
- 1550' - 1610' Sandstone, unconsolidated in samples; moderate reddish orange to grayish orange and white; fine grained; subrounded; some subrounded to well rounded medium to coarse grains; well sorted, some medium sorted suggested. Possible cavings in part. No show.
- Note: At 1585' hole began caving while drilling with air (mist). Attempted to mud up at 1615' but could not establish circulation.
- Note: Possible reverse fault: Kayenta-Wingate thickness in Charger #2 is 280' thicker than in Charger #1 based on comparison of sample tops.
- 1610' - 1650' No samples.

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

CHINLE FORMATION

TOP: 1650'      DATUM: +6396'

- 1650' - 1680'      Siltstone and Shale, pale red, some mottled light olive gray or light greenish gray; hard; dolomitic; dispersed very fine to fine dolomite crystals in part. Trace Shale, light greenish gray; smooth; non-calcareous; firm; subblocky. Minor Dolomite, pale red, some light olive gray; cryptocrystalline to some fine crystalline; hard; argillaceous, silty in part; dense and earthy or tightly crystalline, no visual porosity. No show.
- 1680' - 1700'      Siltstone and Shale, as above but more mottled with light olive gray and moderate reddish orange. No show.
- 1700' - 1760'      Siltstone and Shale, moderate reddish brown, some mottled light olive gray; some slightly crystalline; firm to medium hard; non- to slightly dolomitic; subblocky. Trace Shale, light greenish gray; smooth and firm to abundant fine dolomite crystals and hard. No show.
- 1760' - 1800'      Siltstone, moderate reddish brown, rarely mottled; firm to medium hard; argillaceous; slightly dolomitic; subblocky. No show.
- 1800' - 1820'      Siltstone, moderate reddish brown, as above and pale reddish brown; medium hard; argillaceous; moderately dolomitic; subblocky. No show.
- 1820' - 1850'      Sandstone, grayish red to pale red; very fine to medium grained; angular to subangular; well to medium sorted; firm to medium hard; moderately effervescent in HCl; slightly peppered. Grades to Sandstone, pinkish gray; fine to very coarse grained; angular to subangular; medium to poorly sorted; hard; moderately effervescent in HCl, staining shows both calcite and dolomite cement; freshly broken quartz grains; very slightly peppered, rare green grains; tight, poor visual porosity. Also Siltstone, as above. No show.
- 1850' - 1910'      Siltstone, moderate reddish brown; argillaceous; firm; part highly calcareous...chips disintegrate rapidly in HCl; subblocky. Occasional Limestone nodules, very dusky red. No show.

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

- 1910' - 1940' Siltstone and Shale, moderate reddish brown to grayish red, often mottled; firm; part highly calcareous...chips disintegrate rapidly in HCl. Some Shale, dark reddish brown, occasionally mottled; smooth; firm; non- to moderately calcareous; subwaxy; subblocky. Trace Limestone, white to pale red; crypto- to microcrystalline; hard; dense; no visual porosity.
- 1940' - 1990' Some Sandstone, grayish red; very fine grained, some fine grained; subangular; well sorted; medium hard; moderately calcareous; silty, argillaceous; peppered; trace mica; poor visual porosity. Occasional Limestone nodules, very dusky red. Also Siltstone and Shale, as above. No show.
- 1990' - 2040' Claystone, grayish red, faintly purplish downhole; smooth; soft to firm; non- to slightly calcareous, chips disintegrate rapidly to flakes in HCl; subblocky. Trace Limestone and calcareous Dolomite, grayish pink to pale red; crypto- to microcrystalline; hard; dense; no visual porosity. No show.
- 2040' - 2126' Some Claystone, grayish red purple; smooth; soft to some medium hard; non-calcareous, part swells and disintegrates in HCl; non-carbonaceous. Trace Claystone, dusky yellow. Much Claystone, greenish gray; finely carbonaceous, some coarse coaly; smooth; soft to firm; non- to moderately calcareous, swells and disintegrates rapidly to flakes in HCl. Trace Coal and Shale, black; carbonaceous and conspicuously coaly in part; earthy to some subvitreous; firm to medium hard; laced with very light gray calcareous dolomite fracture fill; often pyritic. No show.

Note: 9 5/8" intermediate casing set at 2078' KB.

SHINARUMP SANDSTONE MEMBER  
CHINLE FORMATION

TOP: 2126' DATUM: +5920'

- 2126' - 2140' Sandstone, pinkish gray to light brownish gray; very fine grained; grain shape indistinguishable; well sorted; firm to medium hard; non- to very slightly calcareous; clay filled; trace mica; very slightly peppered; rare green grains; poor to some fair visual porosity. Possible

Mid-Continent Oil Company  
Charger #2

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

cavings: Sandstone, pale red; very fine to fine grained; subangular; well sorted; firm to medium hard; non- to very slightly calcareous; silty, very argillaceous; micaceous; slightly peppered; poor visual porosity. No show.

2140' - 2170' Sandstone, pinkish gray; very fine and fine grained, some medium grained; subangular; well to some medium sorted; firm to some friable; non- to rarely slightly calcareous; not peppered; moderate clay fill and fair visual porosity; medium grained is much cleaner and has good visual porosity. No show.

2170' - 2260' Sandstone, unconsolidated in samples; clear to white; very fine to coarse grained, predominantly fine to medium grained; subangular--many grains appear freshly broken, perhaps due to drilling; medium to poorly sorted. No show.

2260' - 2290' Gray dust, sample pulverized.

2290' - 2320' No sample.

2320' - 2360' Sandstone, unconsolidated in samples; clear to white; predominantly medium to coarse grained; angular to subangular, few subrounded grains--angular grains often appear freshly broken; medium sorted. No show.

Note: Cuttings through Moenkopi Formation became increasingly fine due to low weight on bit in order to control hole deviation and contained up to 80% unconsolidated sand, apparently from Shinarump Sandstone.

MOENKOPI FORMATION TOP: 2360' DATUM: +5686'

2360' - 2682' Interbedded Siltstone and Shale, dark grayish red; silty in part; firm; slightly dolomitic; muscovite common, often micro-micaceous; platy to subblocky. Particularly in upper part of interval, minor Dolomite, pinkish gray and pale red to pale reddish brown; crypto- to microcrystalline; firm to medium hard; slight HCl insoluble residue; blocky; no visual porosity. No show.

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

- 2682' - 2706' Questionable interpretation--possible cavings: Sandstone, unconsolidated in samples; very fine to very coarse grained and granules, predominantly fine to lower coarse grained; angular (probably freshly broken) to rounded; poorly sorted. Associated with Marlstone, moderate reddish orange; soft; disintegrates in acid to powder. No show.
- 2706' - 2760' Siltstone and Shale, dark grayish red; firm; slightly dolomitic; often micro-micaceous; platy to subblocky. No show.
- 2760' - 2816' Sandstone, moderate reddish orange; very fine to medium grained--loose coarse and very coarse grains are white to clear and may be cavings; angular to subrounded; well to medium sorted clusters; lightly peppered; very slightly calcareous; cuttings too small to estimate visual porosity. No show.
- 2816' - 2950' Dominantly Shale, dark grayish red, grayish brown; smooth to silty; firm; very slightly dolomitic; often micro-micaceous; platy to subblocky. Lesser amounts of interbedded, interlaminated Siltstone, pale red; firm to medium hard; moderately dolomitic; argillaceous; subblocky. No show.
- 2950' - 2990' Shale, medium gray, faint greenish tinge; smooth; firm; very slightly calcareous; platy, subblocky. No show.

SINBAD (TIMPOWEAP) LIMESTONE MEMBER  
MOENKOPI FORMATION TOP: 2990' DATUM: +5056'

Note: First significant increase (2990') in Limestone was chosen as top of Sinbad Limestone. Definite Sinbad Limestone occurs in samples at 3030', the depth at which H<sub>2</sub>S was detected and the depth of first oil show.

2990' - 3030' Questionable interpretation. Limestone, not isolated from "pinch" sample of extremely small cuttings; suggested by quality of effervescence and staining with Alizarin Red S.

Mid-Continent Oil Company  
Charger #2

SUMMARY OF SHOWS AND LITHOLOGY (cont'd)

3030' - 3035' TD Limestone, pinkish gray; cryptocrystalline; extremely small cuttings.

Show:

80% of Limestone had fair fluorescence that was medium bright solid yellow. Fair to good cut in acetone was immediate flash cut that dried to bright yellow halo. Fair to good cut in lighter fluid (naptha) was rapid, moderately streaming, milky yellowish blue and dried to bright yellow halo.



an equal opportunity employer

355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut  
84180-1203. ● (801-538-5340)

Page 1 of 1

Operator name and address:

• MID-CONTINENT OIL & GAS  
P O BOX 810683  
DALLAS TX  
ATTN: JOHN SLAWTER

75381

RECEIVED  
JUN 12 1989

## DIVISION OF OIL, GAS & MINING

Utah Account No. N7050

Report Period (Month/Year) 5 / 89

Amended Report ☐

Comments (attach separate sheet if necessary) wells are shut in, there is no production

I have reviewed this report, and certify the information to be accurate and complete.

Date June 8, 1989

Authorized signature Secy/Treas.

Telephone 214/239-4971

**PLEASE COMPLETE FORMS IN BLACK INK**



## PHONE CONVERSATION DOCUMENTATION FORM

Charger 4 (13-017-30122)  
13-335-2E

Route original/copy to:

☒ Well File Charger 1-4 (13-017-30122)☐ Suspense☐ Other(Return Date) 8-31-89(To - Initials) TAS(Location) Sec 29-32 Twp 15-3E Rng (API No.) 1. Date of Phone Call: 1:35 Time: 8-9-892. DOGM Employee (name) TAS (Initiated Call ☒)  
Talked to:Name  (Initiated Call ☐) - Phone No. (  )of (Company/Organization) Mid-Continent3. Topic of Conversation: Chg of Opn.

4. Highlights of Conversation: Mid-Continent is no longer at  
current phone number in Dallas - no forwarding  
number - Called directory assistance no record of  
H.B. Brown Oil Co. or Harry B. Brown in Dallas  
Island CA. spoke with DVC. BLM on record  
Mid-Continent is operator and have Person finding  
in report to BLM is Olin July 303-034-0141  
8-9-89. Left message on answering machine at 0:30  
014-039-4471 9-00-89 1:03 no answer 714-673-251  
9-01-89 3:18 AM busy signal - 9-01-89 spoke w/  
Mr. Brown he indicates he owns the well but  
we have to contact his attorney.

## PHONE CONVERSATION DOCUMENTATION FORM

Charger 4 (43-017-30122)  
13-335-2E

Route original/copy to:

☐ Well File Charger 1 (43-017-30120)  
29-325-3E  
(Location) Sec      Twp      Rng       
(API No.)     ☐ Suspense  
(Return Date)       
(To - Initials)     ☐ Other     1. Date of Phone Call: 9-1-89 Time: 12:302. DOGM Employee (name) Vicky (Initiated Call ☒  
Talked to: 214-239-4971  
Name John Shawter (Initiated Call ☐ - Phone No. WRONG #  
of (Company/Organization) MID-CONTINENT W70503. Topic of Conversation: JUNE REPORT DUE Sunday  
JULY DUE SEPT 16 PO 810683  
DALLAS  
753814. Highlights of Conversation: THE COMPANY THAT ANSWERED SAID  
THEY GET MORE CALLS FROM FOR JOHN SHAWTER  
THAN FOR THEIR OWN EMPLOYEES. BUT HE DOES  
NOT WORK AT THIS #. 214-233-3380.  
ASKED TAMI TO REMOVE & REPLACE WITH 214-239-4971  
12:35 Busy9/14/89 11:10 left msg with ans service  
to call meH.B. Brown Oil Co. (EVEN OPERATOR)  
-1710 So Bay Front  
BALBOA Island CA  
92662 714-673-4256

## PHONE CONVERSATION DOCUMENTATION FORM

Charger 4 (43-017-30122)  
13-335-2E

Route original/copy to:

☒ Well File (Charger 1 (43-017-30120) 29-325-3E)☐ Suspense☐ Other

(Return Date)

(Location) Sec Twp Rng

(To - Initials)

(API No.)

1. Date of Phone Call: 9-21-89 Time:

2. DOGM Employee (name) Sam Leung (Initiated Call ☒)

Talked to:

Name Orlin Yushie (Initiated Call ☐) - Phone No. (801) 531-8446

of (Company/Organization) H. B. Brown.

3. Topic of Conversation: Chg of Opn.

4. Highlights of Conversation: Mr Yushie indicated as of this time they do not own nor are they responsible for this well. They are in legal difficulties with mid-con. until these legal difficulties are cleared up Mr Yushie will not absorb responsibility for this well. Mr Yushie would however like the Division to send all appropriate forms for his files.



Norman H. Bangerter  
Governor  
Dee C. Hansen  
Executive Director  
Dianne R. Nielson, Ph.D.  
Division Director

State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

*suspense*  
*10-28-89*

September 28, 1989

Mr. John Slawter  
Mid-Continent Oil and Gas Reserves, Inc.  
P.O. Box 810683  
Dallas, Texas 75381

Dear Mr. Slawter:

Re: Change of Operator and Reporting - Charger #1 Well (API 43-017-30120) and  
Charger #4 Well (API 43-017-30122)

The Division of Oil, Gas and Mining has been advised by Mr. Oliver Gushee, attorney for H.B. Brown Oil Company, that the change of operator of the above referenced wells from Mid-Continent Oil and Gas Reserves, Inc. to H.B. Brown Oil Company has not yet been finalized. Until such time that all problems are resolved and Brown Oil becomes accountable for these wells, it will continue to be the responsibility of Mid-Continent, as the bonded operator, to submit all required reports to the division. Currently, the Monthly Oil and Gas Production Reports and the Monthly Oil and Gas Disposition Reports for June and July 1989 are past due.

Your prompt response to this matter is appreciated.

Sincerely,

Don Staley  
Administrative Supervisor

ldc

Enclosures

cc: D.R. Nielson  
R.J. Firth  
V.L. Carney  
T.A. Searing  
BLM - Cedar City  
Well Files

WE11/32

*Prod. File - mid Continent*



State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

September 28, 1989

H.B. Brown Oil Company  
c/o Mr. Oliver Gushee  
1850 Beneficial Life Tower  
Salt Lake City, Utah 84111

Dear Mr. Gushee:

Re: Change of Operator and Reporting Requirements  
Charger #1 Well (API 43-017-30120) and Charger #4 Well (API 43-017-30122)

In response to your conversation with Tami Searing of this office on September 22, 1989, enclosed are copies of the Utah Oil and Gas Conservation General Rules and report forms, and the August 4, 1989 sundry notices from Mid-Continent Oil and Gas Reserves, Inc. informing the division that H.B. Brown Oil Company is the new operator of the above referenced wells.

It is our understanding that legal problems are currently preventing H.B. Brown Oil Company from taking over as well operator and that Mid-Continent remains the bonded operator. Mid-Continent is being advised by this office that the division records will continue to show Mid-Continent as operator at this time.

At such time when all problems have been resolved and Brown Oil takes over as operator, please advise us of the change of operator by submitting Form 9, Sundry Notices and Reports on Wells, and of your position as designated agent for Brown Oil by submitting Form 5, Designation of Agent or Operator.

If we can be of further assistance, please feel free to call.

Sincerely,

Don Staley  
Administrative Supervisor

ldc

Enclosures

cc: D.R. Nielson  
R.J. Firth  
V.L. Carney

WE11/30-31

T.A. Searing  
BLM - Cedar City  
Well Files

# MID-CONTINENT OIL

Executive Offices

12700 Park Central Place, Suite 1404

Dallas, Texas 75251

214/233-3380 • 214/233-3381

RECEIVED  
OCT 25 1989

DIVISION OF  
OIL, GAS & MINING

May 25, 1989

Brown Oil Company  
1715 So. Bay Front  
Balboa Island, CA. 92662

Attn: Mr. Harry B. Brown, President

RE: Resignation As Designated Operator

Dear Mr. Brown:

As per this date, Mid-Continent Oil & Gas Reserves, Inc., hereby resigns as the Designated Operator of the Escalante Anticline Field located in Garfield County, Utah. This involves Federal leases U38347 (Charger #1), U29834, U57341 (Charger #2) and U33919, U53744 (Charger #4). It is specifically pointed out that the Death Hollow Unit was terminated in 1986.

You are further instructed that Pacific International Production Co., of which Mid-Continent Oil is a subsidiary, approves this action as of the 25th day of May, 1989.

Very truly yours,

MID-CONTINENT OIL & GAS RESERVES, INC.

By:   
John D. Slawter, President

PACIFIC INTERNATIONAL PRODUCTION CO.

by:   
John D. Slawter, President

# MID-CONTINENT OIL (N 7050)

## Executive Offices:

12700 Park Central Place, Suite 1404  
Dallas, Texas 75251  
214/233-3380 • 214/233-3381  
P.O. Box 810683, Dallas, TX. 75381

RECEIVED  
OCT 25 1989

DIVISION OF  
OIL, GAS & MINING

October 21, 1989

CERTIFIED MAIL #P953 620 016

State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT. 84180-1203

*Both wells shut in.  
Prod. Reports rec'd  
through Sept 89.*

Attn: Mr. Don Staley, Administrative Supervisor

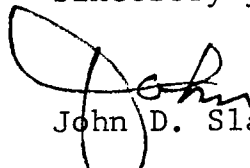
RE: Change of Operator and Reporting - Charger #1 Well  
(API 43-017-30120) and Charger #4 Well (API 43-017-30122)

Dear Don:

In reference to your letter of September 28th pertinent to the above captioned, Harry Brown was notified on May 25th, 1989 that Mid-Continent Oil & Gas Reserves, Inc., with the approval of Pacific International Production Co., resigned as the designated Operator as per the Death Hollow Unit designation in 1983. It was specifically pointed out that the Death Hollow Unit was terminated by the BLM in 1986. In addition thereto, Mid-Continent Oil & Gas Reserves, Inc., lost all of its right, title and interest to said wells and subject leases, through a judicial sale in favor of Brown Oil Company on May 22nd, 1989. A copy of a letter dated May 25th addressed to Harry Brown, President of H.B. Brown Oil Company is enclosed herewith.

As per instructions of your September 28th letter and as a courtesy to you and the Department of Natural Resources, Division of Oil, Gas and Mining, the production reports were made current on October 17th.

Sincerely yours,

  
John D. Slawter  
JDS:mj

Enclosure as stated

## PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ Well File

Change #1.4

☐ Suspense

(Return Date)

☐ Other

(Location) Sec Twp Rng

(To - Initials)

(API No.)

1. Date of Phone Call: 11-7-89 Time: 10:39

2. DOGM Employee (name) Lami Leung (Initiated Call ☐)  
Talked to:Name Greg Christensen (Initiated Call ☐) - Phone No. (804) 4091  
of (Company/Organization) BLM - Escalante

3. Topic of Conversation: Open of record

4. Highlights of Conversation: Currently no-one is lease open  
of these wells. They request that we forward  
a copy of the Oct 21<sup>st</sup> letter sent to DTS11-8-89 Lusa Thompson - Mid Continent is still  
responsible for these wells H.B. Brown is  
in the process of acquiring a bond.1-10-90 H.B. Brown did purchase wells per  
Lusa Thompson but are not as of yet bonded.  
H.B. Brown applied for a lease bond which  
will not include these wells.



## PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ Well File \_\_\_\_\_☐ Suspense  
(Return Date) \_\_\_\_\_  
(To - Initials) \_\_\_\_\_☐ Other \_\_\_\_\_

(Location) Sec \_\_\_\_\_ Twp \_\_\_\_\_ Rng \_\_\_\_\_

(API No.) \_\_\_\_\_

1. Date of Phone Call: 6-22-90 Time: 9:452. DOGM Employee (name) J. Romero (Initiated Call ☒)  
Talked to:Name Oliver Gushue (Initiated Call ☐) - Phone No. (801) 531-8446of (Company/Organization) A44, H.B. Brown Oil Co.3. Topic of Conversation: Legal documentation from H.B. Brown Oil Co.  
of operator change. (6-21-90 Btm/Theresa H.B. Brown Oil Co. Bonded off 2-9-90)  
they are now operators of wells.4. Highlights of Conversation: He referred me to Mr. Orlyn Terry  
3000 Youngfield, Suite 338, Lakewood, CO 80215 (303) 234-0141.\* Mr. Orlyn Terry will send documentation of operator changes. He  
mentioned that the Charger 1, Charger 2 and Charger 4 were involved,  
and are now operated by H.B. Brown Oil Co.\* Received documentation 7-9-90. Operator Name should be:Brown Brothers Land Company50 West Liberty StreetReno, NV 89501(303) 234-0141 Orlyn Terry\* 7-13-90 Confirmed operator name with Btm/Theresa - ok!



ORLYN TERRY • GEOLOGIST • OIL & GAS PROPERTIES  
3000 YOUNGFIELD, SUITE 338, LAKEWOOD, COLORADO 80215 (303) 234-0141

RECEIVED  
JUL 09 1990

DIVISION OF  
OIL, GAS & MINING

June 25, 1990

Lisha Romero  
Division of Oil, Gas and Mining  
#3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

Dear Lisha,

As the authorized representative for Brown Brothers Land Company, please be advised that Brown Brothers Land Company has replaced Mid Continental Oil and Gas as operator on the following wells:

# 1 Charger se sw sec 29 T32S-R3E 43-017-30120  
(Lease V38347)

# 2 Charger nw sw sec 33 T32S-R3E 43-017-30121  
(Lease V-65619)

# 4 Charger ne se sec 13 T33S-R2E 43-017-30122  
(Lease V-53744)

Correspondence related to these wells should be sent to the address below:

Brown Brothers Land Company  
50 West Liberty Street  
Reno, NV 89501

Very truly yours,

Orlyn Terry

cc Harry Brown

OT/jac

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0034  
Expires: July 31, 1995

**ASSIGNMENT OF RECORD TITLE INTEREST IN A  
LEASE FOR OIL AND GAS OR GEOTHERMAL RESOURCES**

Mineral Leasing Act of 1920 (30 U.S.C. 181 et seq.)  
Act for Acquired Lands of 1947 (30 U.S.C. 351-359)  
Geothermal Steam Act of 1970 (30 U.S.C. 1001-1025)  
Department of the Interior Appropriations Act, Fiscal Year 1981 (42 U.S.C. 6508)

Lease Serial No.

UTU-65619

Lease Effective Date  
(Anniversary Date)

11/1/89

New Serial No.

**Type or print plainly in ink and sign in ink.**

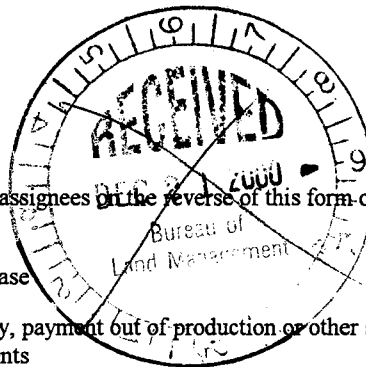
**PART A: ASSIGNMENT**

1. Assignee\* Richardson Production Company  
Street 1700 Lincoln Street, Suite 1700  
City, State, ZIP Code Denver, CO 80203

\*If more than one assignee, check here ☐ and list the name(s) and address(es) of all additional assignees on the reverse of this form or on a separate attached sheet of paper.

This record title assignment is for: (Check one) ☒ Oil and Gas Lease, or ☐ Geothermal Lease

Interest conveyed: (Check one or both, as appropriate) ☒ Record Title, ☐ Overriding Royalty, payment out of production or other similar interests or payments



**2. This assignment conveys the following interest:**

Land Description  Additional space on reverse, if needed. Do not submit documents or agreements other than this form; such documents or agreements shall only be referenced herein.	Percent of Interest			Percent of Overriding Royalty or Similar Interests	
	Owned	Conveyed	Retained	Reserved	Previously reserved or conveyed
a	b	c	d	e	f
Township 32 South, Range 3 East, SLM Section 28: SE/4 Section 32: NE/4SE/4, SW/4SE/4 Section 33: N/2, N/2S/2, S/2SE/4  Containing 800.00 acres, more or less Garfield County, UT	50%	50%	0%	-0-	-0-

RECEIVED  
FEB 2 2001  
Bureau of  
Land Management

**FOR BLM USE ONLY-DO NOT WRITE BELOW THIS LINE**

UNITED STATES OF AMERICA

This assignment is approved solely for administrative purposes. Approval does not warrant that either party to this assignment holds legal or equitable title to this lease.

☒ Assignment approved for above described lands;

☐ Assignment approved for attached land description

Assignment approved effective MAR 1 2001

☐ Assignment approved for land description indicated on reverse of this form.

By [Signature]  
(Authorized Officer)

Chief, Branch of  
Mineral Adjudication

(Title)

FEB 5 2001

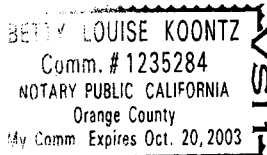
(Date)



STATE OF CALIFORNIA )  
 ) ss.  
COUNTY OF ORANGE )

The foregoing instrument was acknowledged before me this 1st day of November, 2000, by PATRICIA BROWN, as PRESIDENT for Brown Brothers Land Company, a Nevada corporation, on behalf of said corporation.  
Witness my hand and official seal.

My Commission Expires:  
10/20/03



*Betty Louise Koontz*  
Notary Public

#### PART B: CERTIFICATION AND REQUEST FOR APPROVAL

1. The Assignor certifies as owner of an interest in the above designated lease that he/she hereby assigns to the above assignee(s) the rights specified above.
2. Assignee certifies as follows: (a) Assignee is a citizen of the United States; an association of such citizens; a municipality; or a corporation organized under the laws of the United States or of any State or territory thereof. For the assignment of NPR-A leases, assignee is a citizen, national, or resident alien of the United States or association of such citizens, nationals, resident aliens or private, public or municipal corporation; (b) Assignee is not considered a minor under the laws of the State in which the lands covered by this assignment are located; (c) Assignee's chargeable interest, direct and indirect, in each public domain acquired lands separately in the same State, do not exceed 246,080 acres in oil and gas leases (of which up to 200,000 acres may be in oil and gas options), or 300,000 acres in leases in each leasing District in Alaska of which up to 200,000 acres may be in options, if this is an oil and gas lease issued in accordance with the Mineral Leasing Act of 1920, or 51,200 acres in any one State if this is a geothermal lease; (d) All parties holding an interest in the assignment are otherwise in compliance with the regulations (43 CFR Group 3100 or 3200) and the authorizing Acts; (e) Assignee is in compliance with reclamation requirements for all Federal oil and gas lease holdings as required by sec. 17(g) of the Mineral Leasing Act; and (f) Assignee is not in violation of sec. 41 of the Mineral Leasing Act.
3. Assignee's signature to this assignment constitutes acceptance of all applicable terms, conditions, stipulations and restrictions pertaining to the lease described herein.

For geothermal assignments, an overriding royalty may not be less than one-fourth (1/4) of one percent of the value of output, nor greater than 50 percent of the rate of royalty due to the United States when this assignment is added to all previously created overriding royalties (43 CFR 3241).

I certify that the statements made herein by me are true, complete, and correct to the best of my knowledge and belief and are made in good faith.

Executed this 1st day of November, 2000 Executed this 6th day of October, 2000

Name of Assignor as shown on current lease Brown Brothers Land Company ND495 Richardson Production Company

Assignor *Patricia Brown* Please type or print  
PRESIDENT (Signature)  
~~XXXXXX~~ (Signature)

Assignee or *Cathleen Colley* (Signature)  
Attorney-in-Fact (Signature)

~~XXXXXX~~ 1221 W. Coast Hwy., Apt. 110  
(Assignor's Address)  
~~XXXXXX~~ Newport Beach CA ~~XXXXXX~~ 92663  
(City) (State) (Zip Code)

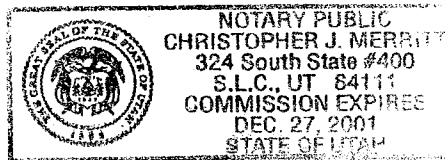
Public reporting burden for this form is estimated to average 30 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer (WO-771), 1849 C Street, N.W. Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0034), Washington, D.C. 20503.

Title 18 U.S.C. Sec. 1001 makes it a crime for any person knowingly and willfully to make to any Department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH                     )  
  ) ss.  
COUNTY OF SALT LAKE         )

On this day of FEB 5 2001, before me appeared Robert Lopez, to me personally known, who being by me duly sworn did say that he is the Chief, Branch of Minerals Adjudication, Bureau of Land Management, Utah State Office, and that the original of the foregoing instrument was signed on behalf of said Bureau, and that he acknowledged said instrument to be the free and voluntary act of said Bureau.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the month, day and year first above written.



Christopher J. Merritt  
Notary Public

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU-65619

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER Shut-In

8. WELL NAME and NUMBER:

**Charger #2**

2. NAME OF OPERATOR:

**Richardson Operating Company**

N2400

9. API NUMBER:

**4301730121**

3. ADDRESS OF OPERATOR:

5600 S Quebec, #130-B

CITY

**Greenwood Village**

STATE

**CO**

ZIP

**80111**

PHONE NUMBER:

**(303) 830-8000**

10. FIELD AND POOL, OR WILDCAT:

**Wildcat**

4. LOCATION OF WELL

FOOTAGES AT SURFACE: **1851' FSL & 318' FWL**

COUNTY: **Garfield**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NWSW 33 32S 3E S**

STATE:

**UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ NOTICE OF INTENT  
(Submit in Duplicate)

Approximate date work will start:

☐ SUBSEQUENT REPORT  
(Submit Original Form Only)

Date of work completion:

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☒ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☐ OTHER: \_\_\_\_\_

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Operator change from Brown Brothers Land Company to Richardson Operating Company. Sundry inadvertently not filed when title was transferred. Transfer documentation attached per conversation with Earlene on 6/27/05.

State of Utah Surety Bond RLB0008217

see attached BLM form for  
Brown Brothers Land Co N0495  
offer to transfer  
Effective 11/01/00

**APPROVED** 8/24/05  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

NAME (PLEASE PRINT) **Patti L. Davis**

TITLE **Vice President**

SIGNATURE

*Patti L Davis*

DATE **6/28/2005**

(This space for State use only)

RECEIVED  
JUN 30 2005  
DIV. OF OIL, GAS & MINING

### 3. FILE

## Merger

**11/1/2000**

**TO: ( New Operator):**  
**N2400-Richardson Operating Company**  
**5600 S Quebec, #130 B**  
**Greenwood Village, CO 80111**  
**Phone: 1-(303) 830-8000**

Unit:

[illegible]

## Richardson FORM 4A.xls 8/24/2005

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 2/5/2001 BIA n/a

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

1. Changes entered in the Oil and Gas Database on: 8/24/2005
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 8/24/2005
3. Bond information entered in RBDMS on: n/a
4. Fee/State wells attached to bond in RBDMS on: n/a
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: RLB0002500

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: n/a

**FEE & STATE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number n/a
2. The FORMER operator has requested a release of liability from their bond on: n/a  
The Division sent response by letter on:

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

---

---

---

---

---

---